NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY IP	CR FP	NOTES	CONCLUSION
643	ABIES	PROCERA	NOBLE FIR	INERT		INERT	REMOVE EMPTY SEED						ALL TRIALS WERE UNSATISFACTORY.
1069	ACHILLEA		WHITE YARROW	INERT		INERT	THRESH AND CLEAN	BELT THRESHER	SEQ.			AIR SEPARATION WAS NOT HELPFUL WITH THIS SEED. THIS SAMPLE FORMERLY PART OF PROBLEM SAMPLE #710.	SAMPLE WAS BELT-THRESHED, THEN CLEANED BY SCREENING AND GRAVITY TABLE.
				INERT INERT		INERT		SCREEN GRAVITY	SEQ. 1/16 ROUND-HOLE				
1022	AETHIOPICA		CALLA LILLY	AETHIOPICA		UNTHRESHED CALLA LILLY	THRESH FROM POD	BELT THRESHER	SEQ.	GOOD		ALSO INTERESTED IN CLEANING TECHNIQUES FOR BEGONIA SEED.	USE BELT THRESHER OR BRUSH MACHINE FOR THREHSING CALLA LILLY.
				AETHIOPICA		UNTHRESHED CALLA	REMOVE INERT	BELT THRESHER		GOOD		RELATED SAMPLES FORMERLY UNDER #736 NOW UNDER #1030	
736	AGERATUM		AGERATUM	INERT		INERT	MATERIAL REMOVE INERT	PNEUMATIC		FAIR		THROUGH #1036.	
1032	AGERATUM		AGERATUM	INERT INERT		INERT	MATERIAL REMOVE INERT	SCREEN VIBRATORY	SEQUENCE SEQUENCE	GOOD		FORMERLY UNDER SAMPLE #736	
1183	AGERATUM		AGERATUM				MATERIAL					SEED MEASUREMENTS INDICATE	NO SUCCESS WITH THIS SAMPLE, ALTHOUGH
460	AGROPYRON	DASYSTACHYUM		AGROPYRON	TRACHYCAULUM	SLENDER WHEATGRASS	REMOVE SLENDER WHEATGRASS	OTHER	INCLINED CHUTE	FAIR	87		THE INCLINED CHUTE WAS ABLE TO CONCENTRATE THE THICKSPIKE SOMEWHAT.
				AGROPYRON	TRACHYCAULUM	SLENDER WHEATGRASS		ELECTROSTATIC		POOR			
				AGROPYRON AGROPYRON	TRACHYCAULUM TRACHYCAULUM	SLENDER WHEATGRASS SLENDER WHEATGRASS		MAGNETIC PNEUMATIC		POOR POOR			
				AGROPYRON	TRACHYCAULUM	SLENDER WHEATGRASS		VIBRATORY		POOR			
7	AGROPYRON	DESERTORUM	CRESTED WHEATGRASS	CENTAUREA	CYANUS	CORNFLOWER	REMOVE CORNFLOWER	ELECTROSTATIC	16KV, HOR=6.5, VERT=9.25, ROT=-1.25	FAIR			THE ELECTROSTATIC SEPARATOR DID A FAIR JOB YIELDING 60% BY VOLUME WITH NO CORNFLOWER, 35% WITH SOME CORNFLOWER, AND 5% WITH MANY CORNFLOWER.
392	AGROPYRON	INERME	WHITMAN BEARDLESS WHEATGRASS	BROMUS		CHEATGRASS	REMOVE CHEATGRASS.	SCREEN	6X16 SLOT			SEED MEASUREMENTS INDICATED THAT 60% OF THE CHEAT AND 4% OF THE CROP WOULD BE DROPPED IN A 1/21 ROUND-HOLE SCREEN. ALSO, 70% OF THE CHEAT AND 16% OF THE CROP WOULD BE DROPPED IN A 6X18 SLOTTED SCREEN.	NO RESULTS AVAILABLE.
332	nonor mon	INDICID		BROMUS		CHEATGRASS	REMOVE CHEMICAGES.	SCREEN	1/21" ROUND-HOLE			Jekazik.	NO REGORD IVIII MEDEL
				BROMUS		CHEATGRASS		VIBRATORY	SANDPAPER DECK		75		
1042	AGROPYRON	INTERMEDIUM	INTERMEDIATE CRESTED WHEATGRASS				THRESH AND CLEAN SAMPLE	SCARIFIER	BRUSH-TYPE W/#10 CYLINDER	GOOD			THE BRUSH-TYPE SCARIFIER WITH #10 CYLINDER AND THE FILAMENT SCARIFIER YIELDED THE MOST DEHULLED SEED WITH THE MINIMUM NUMBER OF PASSES. THE SAMPLES WERE THEN CLEANED BY PNEUMATIC SEPARATOR.
								SCARIFIER	FILAMENT-TYPE	GOOD			
								SCARIFIER	SPEED RATIO=10 FRICTION	FAIR FAIR			
789	AGROPYRON	SIBIRICUM	SIBERIAN WHEATGRASS	TAENIATHERUM	ASPERUM	MEDUSAHEAD	REMOVE MEDUSAHEAD	VELVET ROLL VIBRATORY		POOR GOOD		the medusahead in the mixture had long awns while the wheatgrass had no awn or a very short one.	THE VIBRATOR OR INDENT DISK PROVIDE A METHOD FOR REMOVING MEDUSAHEAD FROM SIBERIAN WHEATGRASS. THE VIBRATOR IS ONLY SATISFACTORY FOR VERY LOW VOLUME
								INDENT DISC	SIZE A DISK	GOOD			
								PNEUMATIC		POOR			VERY COMPLETE HAND SCREENING WAS
797	AGROPYRON	SPICATUM		AVENA	FATUA	WILD OAT	REMOVE WEED SEEDS: WILD OATS AND BROMES.	SCREEN	SEQ. 1/12 ROUND HOLE			PNEUMATIC AND ELECTROSTATIC SEPARATION WERE ALSO TRIED WITH NO SUCCESS.	PERFORMED WITH A 1/12 ROUND HOLE SCREEN AND A 4X22 WIRE MESH SCREEN WITH VISIBLE IMPROVEMENT. DUE TO THE DIFFICULT OF IDENTIFICATION, NO CLOSE ANALYSIS WAS ATTEMPED. EXPECTED SHRINKAGE WOULD BE 25% IN THE TWO OPERATIONS.
\vdash				BROMUS	VARIOUS	VARIOUS		SCREEN	SEQ. 4X22 WIRE MESH	GOOD			THE JAMES DEBEARDER/PNEUMATIC/SCREEN
212	AGROPYRON	SPICATUM	BLUEBUNCH WHEATGRASS	AWNS		AWNS	DE-AWN SEED, REMOVE STEMS AND TRASH (AWNS INTERLOCK AND SEED MATS TOGETHER).	OTHER	SEQ.JAMES DEBEARDER	GOOD			SEQUENCE WORKED WELL WITH THIS PROBLEM. THE PMEUMATIC SEPARATOR REMOVE BEARDS, EMPTIES AND LIGHT SEED, AND THE SCREEN DROPPED MOSTLY CLEAN SEED, ONLY A FEW OF WHICH HAD ANNS.
	-			AWNS		AWNS		PNEUMATIC	SEQ.	GOOD			
1265	AGROPYRON	SPICATUM		AWNS		AWNS		SCREEN	SEQ. 3/64X5/16	GOOD			
	AGROPYRON	SPICATOM	WHEATGRASS (4 VARS)	AGROPYRON		FIELD RUN WHEATGRASS	FIND SCREEN SIZES	SCREENS	SEQ 7 TO 10 RH TOP			FOUR VARITIES OF WHEATGRASS WERE TESTED TO DETERMINE SCREEN SIZES.	
1137	IOROF INUN		(I VANO)	AGROPYRON			TON GENERAL CLEANING		SEQ 1/24X1/2 TO			OCKEAN DIABO.	
1222	AGRARADAN		WHEATGRASS			FIELD RUN WHEATGRASS		SCREENS	1/24X1/2 BOTTOM 250LB/HR FOR 10 CHANNEL UNIT			THIS WAS A REQUEST FOR INFORMATION CONCERNING MANUFACTURERS OF COLOR SORTERS AND WHETHER WE HAVE HAD ANY EXPERIENCE COLOR	
1220	AGROPYRON	1	WHEATGRASS	MGKUPIKUN	REPENS	QUACKGRASS	l .	COLOR SORTER	CHANNEL UNIT			SORTING GRASSES.	<u> </u>

			T. Control of the Con	SPECIES	NAME	PROBLEM	WHCHINE OPED	OPERATING PARAMETERS	QUALI	IP	CR	FP NOTES	CONCLUSION
550 AGROPYRON		WHEATGRASS	BROMUS	JAPONICUS	JAPANESE BROMEGRASS	REMOVE JAPANESE BROMEGRASS.	PNEUMATIC	NUMBER OFFICE AND ADDRESS OF THE STATE OF TH	FAIR	90		UNSUCCESSFUL ATTEMPTS WERE MADE WITH THE VIBRATOR, BOUNCE PLATE, SCRENS, GRAVITY TABLE, VELVET ROLLS AND SEVERAL COMBINATIONS OF 97 SEPARATORS.	ATTEMPTS TO REMOVE THE BROMEGRASS WERE GENERALLY UNSUCCESSFUL. THE BEST SEPARATION WAS WITH THE PNEUMATIC SEPARATOR WHICH REMOVED 2/3 OF THE CONTMINANT WHILE SALVAGING 2/3 OF THE CROP. MORE AIR WOULD REMOVE MORE BROMEGRASS ALONG WITH MORE OF THE CROP.
			BROMUS BROMUS	JAPONICUS JAPONICUS	JAPANESE BROMEGRASS JAPANESE BROMEGRASS		OTHER ELECTROSTATIC	CHUTE SEPARATOR	FAIR FAIR		54 60		
1087 AGROPYRON		SOPAR WHEATGRASS	BROMUS	TECTORUM	DOWNY BROME	REMOVE DOWNY BROME	PNEUMATIC		POOR		60	THIS LOT HAD ALREADY BEEN THROUGH A SCREENING AND GRAVITY TABLE.	BEST RESULTS WERE ACHEIVED WITH A 4X20 WIRE MESH SCREEN WHICH REMOVED 60% OF THE BROME WITH A 20% CROP LOSS. THE VIBRATOR SHOWED SOME PROMISE, REMOVING BROME AND WATTERGRASS WHICH WAS ALSO PRESENT IN THE LOT.
			BROMUS BROMUS	TECTORUM TECTORUM	DOWNY BROME DOWNY BROME		SCREEN VIBRATORY	4X20 WIRE MESH SANDBLASTED AL. DECK	GOOD FAIR	97	60	99	
1165 AGROPYRON		WHEATGRASS	BROMUS BROMUS	TECTORUM TECTORUM	DOWNY BROME DOWNY BROME	REMOVE DOWNY BROME	SCARIFIER SCREEN	SEQ #14 WW SEQ 4X20 WW	GOOD	98	80	MATERIAL WAS FIRST DEBEARDED TO REDUCE THE SIZE (GROAT) THE BROMUS. A 4X20 OF 4X22 WOVEN WIRE SCREEN WOULD THEN DROP MUCH OF THE BROME.	USE SCARIFIER THEN SCREENS TO REMOVE DOWNY BROME.
												BOTH SCREENS REMOVED A LARGE	
1040 AGROSTIS F	ALBA	REDTOP	HOLCUS	LANATUS LANATUS	VELVETGRASS VELVETGRASS	REMOVE VELVETGRASS	SCREEN SCREEN	6X38 (.015) WW .027 RH	GOOD FAIR	+	95 90	PORTION O	USE 6X38 WW TO REMOVE VELVETGRASS
		SEASIDE				REMOVE SPIKE BENTGRASS AND FINE HAIRGRASS. THIS LOT WAS RERUN MATERIAL THAT HAD BEEN PROCESSED IN A							VARIOUS SCREENS AND THE PNEUMATIC
258 AGROSTIS I	PALUSTRIS	BENTGRASS	AGROSTIS	EXARATA	SPIKE BENTGRASS	HAMMERMILL.	SCREENS	VARIOUS	POOR				SEPARATOR WERE TRIED WITHOUT SUCCESS.
			AIRA AGROSTIS	ELEGANS EXARATA	FINE HAIRGRASS SPIKE BENTGRASS		SCREENS PNEUMATIC	VARIOUS	POOR				
			AIRA	ELEGANS	FINE HAIRGRASS		PNEUMATIC		POOR				
		SEASIDE				REMOVE SPIKE							ALTHOUGH NO RESULTS WERE ACCEPTABLE, THE VIBRATOR SEPARATOR SHOWED A TENDENCY TO CARRY THE SPIKE BENTGRASS UPHILL MORE READILY THAN THE SEASIDE
259 AGROSTIS I	PALUSTRIS	BENTGRASS	AGROSTIS AGROSTIS	EXARATA EXARATA	SPIKE BENTGRASS SPIKE BENTGRASS	BENTGRASS.	VIBRATORY SCREENS	SMOOTH VINYL DECK VARIOUS	POOR POOR				BENTGRASS.
			AGROSTIS	EXARATA	SPIKE BENTGRASS		PNEUMATIC	VARCIOUS	POOR				
538 AGROSTIS	PALUSTRIS	SEASIDE BENTGRASS	AGROSTIS	TENUIS	COLONIAL BENTGRASS	REMOVE COLONIAL BENTGRASS							
	PALUSTRIS	SEASIDE BENTGRASS	AIRA	CARYOPHYLLEA	SILVER HAIRGRASS	REMOVE SILVER	VIBRATORY	FINE 80 GRIT, MULTI- DECK	GOOD				THE VIBRATOR MADE WHAT APPEARED TO BE A VERY GOOD SEPARATION. A CAPACITY TRIAL INDICATED THAT A RATE OF 1.0228LBS/HR OF CLEAN SEED COULD BE EXPECTED. THIS COULD BE INCREASED, BUT THE SEPARATION MIGHT NOT BE AS GOOD.
						REMOVE SILVER							THE VIBRATOR NICELY REDUCED SILVER
225 AGROSTIS	PALUSTRIS	SEASIDE BENTGRASS	AIRA	CARYOPHYLLEA	SILVER HAIRGRASS	HAIRGRASS AND MOUSEAR.	VIBRATORY	FINE 80 GRIT DECK	GOOD				HAIRGRASS TO .08% AND MOUSEAR TO 180/LB WITH AN 89% YIELD.
			CERASTIUM		MOUSEAR		VIBRATORY	FINE 80 GRIT DECK	GOOD				
95 AGROSTIS I	PALUSTRIS	SEASIDE BENTGRASS	CERASTIUM CERASTIUM CERASTIUM CERASTIUM		MOUSEAR MOUSEAR MOUSEAR MOUSEAR	REMOVE MOUSEAR (4960/LB IN ORIGINAL SAMPLE).	DRAPER PNEUMATIC VIBRATORY VELVET ROLL	PLASTIC BELT, 33FPM, 29 DEG	GOOD GOOD POOR POOR		90 92		THE DRAPER AND PNEUMATIC SEPARATORS BOTH DID GOOD JOBS, LOWERING MOUSEAR CONTENT TO 451/LB AND 400/LB RESPECTIVELY. THE PNEUMATIC SEPARATOR DID SLIGHTLY BETTER WITH LESS CROP LOSS.
			CERASTIUM		MOUSEAR		ELECTROSTATIC		POOR				
223 AGROSTIS I	PALUSTRIS	SEASIDE BENTGRASS	CERASTIUM CERASTIUM		MOUSEAR MOUSEAR	REMOVE MOUSEAR.	INDENT CYLINDER VIBRATORY	1/22X24 CYLINDER	FAIR FAIR	88		VIBRATOR, ELECTROSTATIC AND	THE 1/22X24 INDENT CYLINDER REDUCED MOUSEAR TO 1400/LB, BUT WITH ONLY A SCREENING FOLLOWED BY INDENT CYLINDER
492 AGROSTIS I	PALUSTRIS	CHICKWEED	CERASTIUM	VISCOSUM	STICKY MOUSE-EAR	EAR	SCREEN INDENT CYLINDER SCREEN	SEQ.50X50 SEQ.SPECIAL INDENT CYLINDER .018" ROUND HOLE	GOOD			PNEUMATIC WERE UNSUCCESSFUL.	YIELDED THE BEST RESULTS.
16 AGROSTIS I	PALUSTRIS	SEASIDE BENTGRASS	JUNCUS	BUFONIUS	TOADRUSH	REMOVE TOADRUSH.	DRAPER						ORIGINAL DATA SHEET FOR TRIALS WITH CARPCO ELECTRONIC UNIT SHOWED THAT TOADRUSH COULD BE CONCENTRATED IN ONE FRACTION, BUT WITH A HIGH AMOUNT OF SHRINKAGE.
		SEASIDE BENTGRASS	PLANTAGO	MAJOR	RIPPLESEED PLANTAIN	REMOVE RIPPLESEED PLANTAIN.	VIBRATORY	FINE SANDPAPER DECK	GOOD	99	84	100	THE VIBRATOR DID THE BEST, RECLAIMING 86.4% OF THE LOT WITH 172 PLANTAIN PER POUND.
			PLANTAGO PLANTAGO PLANTAGO PLANTAGO	MAJOR MAJOR MAJOR MAJOR	RIPPLESEED PLANTAIN RIPPLESEED PLANTAIN RIPPLESEED PLANTAIN RIPPLESEED PLANTAIN		INDENT CYLINDER ELECTROSTATIC DRAPER PNEUMATIC		POOR POOR POOR				

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CI	R F	P NOTES	CONCLUSION
		SEASIDE				DEMOVE BIDDLECEED							THE BLOWER AND VIBRATOR BOTH YIELDED GOOD RESULTS. THE BLOWER LIFTED ABOUT 80% OF THE MATERIAL WITH LITTLE OR NO PLANTAIN. THE VIBRATOR SALVAGED NOS OF THE OBJECTION MADERIAL WITH
51 AGROSTIS	PALUSTRIS	BENTGRASS	PLANTAGO	MAJOR	RIPPLESEED PLANTAIN	REMOVE RIPPLESEED PLANTAIN.	PNEUMATIC		GOOD	10	0 10	20	90% OF THE ORIGINAL MATERIAL WITH VERY LITTLE PLANTAIN.
				MAJOR	RIPPLESEED PLANTAIN		VIBRATORY	FINE DECK	GOOD		-		
				MAJOR	RIPPLESEED PLANTAIN		SCREENS		POOR				
			PLANTAGO	MAJOR	RIPPLESEED PLANTAIN		VELVET ROLL		POOR				
			PLANTAGO	MAJOR	RIPPLESEED PLANTAIN		DRAPER		POOR				
		ODAGIDE				DEMOVE DIDDI BORRD							ONLY THE VIBRATOR MADE A SEPARATION.
432 AGROSTIS	PALUSTRIS	SEASIDE BENTGRASS	PLANTAGO	MAJOR	RIPPLESEED PLANTAIN	REMOVE RIPPLESEED PLANTAIN	VIBRATORY	SANDPAPER DECK	FAIR				IT SALVAGED 83% OF THE LOT WITH 90 PLANTAIN/LB.
432 AGROSTIS I	PADOSTRIS	BENTGRASS		MAJOR	RIPPLESEED PLANTAIN	FIRMININ	VELVET ROLL		POOR		_		PBANTAIN/BB.
				MAJOR	RIPPLESEED PLANTAIN		PNEUMATIC		POOR				
				MAJOR	RIPPLESEED PLANTAIN		SCREENS		POOR				
							INDENT						
			PLANTAGO	MAJOR	RIPPLESEED PLANTAIN		CYLINDER		POOR		-		THE DECITION DIDITY CAN BE MET HOUSE
795 AGROSTIS I	PALUSTRIS	SEASIDE BENTGRASS	PLANTAGO	MAJOR	RIPPLESEED PLANTAIN	REMOVE RIPPLESEED PLANTAIN AND ST. JOHNSWORT	GRAVITY	SEQ.	FAIR				THE REQUIRED PURITY CAN BE MET USING THE GRAVITY TABLE WITH SUBSEQUENT PROCESSING OF THE FRACTIONS BY SCREENS AND SPECIAL INDENT CYLINDER.
								SEQ024" RD HOLE:					
			HYPERICUM	PERFERATUM	ST. JOHNSWORT		SCREEN	GROAT FRACTION	GOOD				
		SEASIDE				RECOMMEND MEANS TO REMOVE FOWL	INDENT	SEQ.1/22X24GA. INDENT CYL. MIDDLE					BASED ON SEED MEASUREMENTS, IT IS RECOMMENDED TO USE A .017* ROUND-HOLE SCREEN AND/OR A .016* SLOTTED SCREEN TO SCALP OF THE BIGGEST BLUEGRASS TO MEET THE .25% WEED ALLOWANCE. ABOUT 10% OF THE CROP WOULD BE LOST ALSO.
446 AGROSTIS		BENTGRASS	POA	PALUSTRIS	FOWL BLUEGRASS	BLUEGRASS	CYLINDER	FRACTION	GOOD				OTHER METHODS APPEAR IMPOSSIBLE.
		SEASIDE				REMOVE ANNUAL		SEQ. 6X32 SLOTTED					REMOVING BLUEGRASS FROM BENTGRASS IS
745 AGROSTIS I	PALUSTRIS	BENTGRASS	POA	ANNUA ANNUA	ANNUAL BLUEGRASS ANNUAL BLUEGRASS	BLUEGRASS	SCREEN	HOLE	GOOD				POSSIBLE IN CONVENTIONAL EQUIPMENT.
			POA	ANNUA	ANNUAL BLUEGRASS		PNEUMATIC	SEQ. AIR=170FPM	GOOD				BEST RESULTS OBTAINED WITH THE INDENT CYLINDER WHICH REMOVED MUCH CRESS ALONG WITH SOME BENTGRASS. PNEUMATIC
		SEASIDE					INDENT						SEPARATION WAS ALSO QUITE EFFECTIVE,
88 AGROSTIS I	PALUSTRIS	BENTGRASS	RORIPPA RORIPPA		CRESS	REMOVE CRESS	CYLINDER VIBRATORY	.032"X30 GA CYLINDER VERY FINE SANDPAPER	POOR		-		BUT 10-15% OF THE BENTGRASS WAS LOST.
			RORIPPA		CRESS		PNEUMATIC	VERT FINE SANDPAPER	FAIR				
			RORIPPA		CRESS		ELECTROSTATIC		POOR				
363 AGROSTIS S	STOLONIFERA	PENNCROSS BENTGRASS	CAPSELLA MATRICARIA	BURSA-PASTORIS MATRICARIODES	SHEPHERDSPURSE PINRAPPILEWERD	REMOVE SHEPHERDSPURSE AND PINEAPPLEWEED.	SCREEN SCREEN	.02" ROUND-HOLE	GOOD GOOD				THE .020" ROUND-HOLE SCREEN SCALPED OFF MOST OF THE WEEDS WITH ONLY A SMALL LOSS OF BENTGRASS. ACCORDING TO SEED MEASUREMENTS, AN INDENT CYLINDER WITH POCKETS .046"DIA X .015"DEEP SHOULD ALSO WORK WELL.
			- Introduction	- Intercent Coppe	T THE T DEMOCD		DORDEN	TOE ROOMS HOLE	0002				THE 1/31 X 30GA INDENT CYLINDER
233 AGROSTIS S	STOLONIFERA	PENNCROSS BENTGRASS	CERASTIUM		MOUSEAR	REMOVE MOUSEAR AND SILVER HAIRGRASS.	INDENT CYLINDER	1/31X30GA	GOOD				REDUCED MOUSEAR TO 3600/LB WITH A 93% RECOVERY OR THE ORIGINAL LOT. RERUNNING
			CERASTIUM		MOUSEAR		VIBRATORY	280 GRIT DECK	GOOD				
			AIRA	CARYOPHYLLEA	SILVER HAIRGRASS		VIBRATORY	280 GRIT DECK	GOOD				
004 20000000		PENNCROSS	ann 1 am 1 m		wowanan .	REMOVE MOUSEAR AND							THE VIBRATOR EFFECTIVELY REMOVED BOTH
234 AGROSTIS S	STOLONIFERA	BENTGRASS	CERASTIUM AIRA	CARYOPHYLLEA	MOUSEAR SILVER HAIRGRASS	SILVER HAIRGRASS.	VIBRATORY VIBRATORY		GOOD				CONTAMINANTS.
1076 AGROSTIS S	STOLONIFERA	COLONIAL BENTGRASS	CERASTIUM	VISCOSUM	STICKY CHICKWEED	REMOVE STICKY CHICKWEED	INDENT CYLINDER INDENT	1MM POCKET	GOOD	9	5	1MM POCKET INDENT CYLINDER REMOVED THE MAJORITY OF THE CHICKWEED ALONG WITH SOME OF THE SMALL GROATED CROP SEED. ROUND SOIL PARTICLES WERE REMOVED ALSO.	USE 1MM INDENT CYLINDER TO REMOVE CHICKWEED AND SOIL.
			SOIL		SOIL		CYLINDER	1MM POCKET	GOOD	7	5		
		COLONIAL				REMOVE WILD CARROT,						REMOVAL OF WILD CARROT WAS MOST IMPORTANT IN THIS SAMPLE. A 6X50 WOVEN WIRE SCREEN APPEARED TO REMOVE A MAJORITY OF THE WILD CARROT WITH LOSS OF ABOUT 33 % OF	
1075 AGROSTIS S	STOLONIFERA	BENTGRASS	DAUCUS	CAROTA	WILD CARROT	MULLEN, SPEEEDWELL	SCREEN	6X50 WW			_	THE CROP.	RESULTS ARE NOT COMPLETE
-			VERBASCUM VERONICA		MULLEIN SPEEDWELL		SCREEN SCREEN	6X50 WW 6X50 WW	-		-		
			VERUNICA		OFFERMENT		CREEN	OAJU WW			+		DIRT CAN BE REDUCED TO LESS THAN .5%
315 AGROSTIS S	STOLONIFERA	PENNCROSS BENTGRASS	DIRT		DIRT CLODS	REMOVE DIRT CLODS.	SCREEN INDENT	SEQ018" ROUND HOLE SEQ027"DIAMX.010"D					USING THE SCREEN/INDENT CYLINDER/PNEUMATIC SEQUENCE.
			DIRT		DIRT CLODS		CYLINDER	EEP POCKETS	GOOD				
			DIRT		DIRT CLODS		PNEUMATIC		GOOD				
913 AGROSTIS S	STOLONIFERA	CREEPING BENTGRASS	EARTHA	DIRTEA	SOIL	REMOVE SOIL USING MAGNETIC SEPARATOR. COMPARE PERFORMANCE OF MAGNETIC FLUID WITH IRON POWDER.	MAGNETIC	MAGNETIC FLUID		9	3		SOIL IN CREEPING BENTGRASS WAS REDUCED BY 93% WITH MAGNETIC FLUID AND 44% BY MAGNETIC POWDER.
			EARTHA	DIRTEA	SOIL		MAGNETIC	MAGNETIC POWDER		4	4		
1083 AGROSTIS S	STOLONIFERA	BENTGRASS	EPILOBIUM EPILOBIUM		WILLOWHERB WILLOWHERB	REMOVE WILLOWHERB AND OTHER WEEDS	INDENT CYLINDER		FAIR FAIR	96 6	6 9	09 THIS SAMPLE C	USE 1.35 MM INDENT CYLINDER FOLLOWED BY 36X36 WW SCREEN TO REMOVE WILLOWHERB AND OTHER WEEDS.

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP	CR FP	NOTES	CONCLUSION
541 z	GROSTIS	STOLONIFERA	PENNCROSS BENTGRASS	ERGOT		ERGOT	REMOVE ERGOT.	INDENT CYLINDER	1/19x24GA SPECIAL INDENT	POOR	100	100	ERGOT CONCENTRATION NEEDED TO BE BELOW .004% FOR THE EXPORT OF THIS LOT. THE VELVET ROLLS AND BOUNCE PLATE WERE INEFFECTIVE IN THIS SEPARATION.	ALTHOUGH IT WAS POSSIBLE TO REMOVE SOME ERGOT (AT THE EXPENSE OF CONSIDERABLE CROP LOSS), THE LOW LEVEL OF .004% COULD NOT BE REACHED. THE BEST SEPARATIO
311	OKODIID	DTODONTI DIGI	<u>DDM TOTALIDO</u>	ERGOT		ERGOT	REMOVE ERROT.	PNEUMATIC	230 FPM	POOR		100		THE BEST OFFICE TO
				ERGOT		ERGOT			18 KV, ELECTRODE LIFTED	POOR	100	100		
				ERGOT		ERGOT		MAGNETIC	#6 POWDER	FAIR	100	100		
				ERGOT		ERGOT			180 GRIT SEQ.1/19X24GA	FAIR	100	100		
				ERGOT		ERGOT		INDENT CYLINDER	SPECIAL INDENT					
				ERGOT		ERGOT		MAGNETIC	SEQ.	FAIR				THE COURT POLICE AND ALCOHOLOGO
271	anoamya		BENTGRASS,	INERT		INERT	REMOVE INERT		SEQ. SQUEEZE ROLLER				ALLOWABLE AMOUNT OF SOIL IN THE SAMPLE WAS 0% (FOR OVERSEAS EXPORT). SQUEEZE ROLLERS WERE USED TO CRUSH	THE SQUEEZE ROLLERS AND MAGNETIC SEPARATOR (AND TO A LESSER DEGREE; THE GRAVITY TABLE, FRICTION SEP. AND DISSOLVING THE SOIL IN WATER) WERE EFFECTIVE IN LOWERING THE PERCENTAGE OF SOIL IN THE SAMPLE, BUT NONE WAS ABLE TO ELIMINATE IT ENTIRELY AS
//1 A	GROSTIS	STOLONIFERA	CREEPING	INERT		INERT	MATERIAL: SOIL	OTHER PNEUMATIC	USED SEQ.				THE SOIL BEFORE SCREENING.	REQUIRED.
				INERT		INERT			SEQ.	FAIR	100	55 100		
				INERT		INERT		MAGNETIC	FERROMAGNETIC LIGNOSULFATE SOLN. USED.	FAIR	100	82 100		
105	СВОСТТС	CTOLONIEPD*	PENNCROSS	TUNCUE	DUEONTHE	TOADBUCH	REMOVE TOADRUSH	INDENT	.027"DIAMX.012"DEEP	POOR				THE 50X50 WIR
105 A	GROSTIS	STOLONIFERA	BENTGRASS	JUNCUS	BUFONIUS BUFONIUS	TOADRUSH TOADRUSH	REMOVE TOADRUSH	CYLINDER SCREEN	POCKETS 50X50 WIRE MESH	FAIR		82		IND SOADU WIK
				JUNCUS	BUFONIUS	TOADRUSH		ELECTROSTATIC		POOR				
-				JUNCUS JUNCUS	BUFONIUS BUFONIUS	TOADRUSH TOADRUSN		DRAPER VIBRATORY		POOR POOR				
			CREEPING				REMOVE PINEAPPLE		6X50WW DROPPED				LOT NEEDS TO BE 99% PURE. PINEAPPLE WEED MAKES UP THE LARGEST PERCENTAGE OF THE CONTAMINANTS. SHEPARDS PURSE	
1133 A	GROSTIS	STOLONIFERA	BENTGRASS	MATRICARIA	MATRICARIOIDES	PINEAPPLE WEED	WEED	SCREEN	CONTAMINANT	FAIR	1.2	100 100	IS	TOGETHER IN THE CORRECT PROPORTIONS. GOOD RESULTS WERE ONLY OBTAINED ON
413 A	GROSTIS	STOLONIFERA	PENNCROSS BENTGRASS	PLANTAGO	MAJOR		REMOVE RIPPLESEED PLANTAIN	VIBRATORY	SANDPAPER DECK	GOOD		100 100		THE VIBRATOR WHICH SALVAGED 85% OF THE LOT FREE OF PLANTAIN.
				PLANTAGO	MAJOR	RIPPLESEED PLANTAIN		SCREENS INDENT	VARIOUS	POOR				
				PLANTAGO	MAJOR	RIPPLESEED PLANTAIN		CYLINDER		POOR				
				PLANTAGO PLANTAGO	MAJOR MAJOR	RIPPLESEED PLANTAIN RIPPLESEED PLANTAIN		PNEUMATIC DRAPER		POOR POOR				
			CREEPING				REMOVE RIPPLESEED							FRACTIONS WERE GIVEN TO SUBMITTER FOR
828 A	GROSTIS	STOLONIFERA	BENTGRASS	PLANTAGO	MAJOR	RIPPLESEED PLANTAIN RIPPLESEEDED	PLANTAIN REMOVE RIPPLE SEEDED	MAGNETIC	MAGNETIC FLUID					EVALUATION.
1239 A	GROSTIS	STOLONIFERA	BENTGRASS	PLANTAGO	MAJOR	PLANTAIN	PLANTAIN						THIS	
211 A	GROSTIS	STOLONIFERA	PENNCROSS BLUEGRASS	POA	PRATENSIS	MERION BLUEGRASS	REMOVE GROATS OF MERION BLUEGRASS							SEPARATING TRIALS WERE NOT CARRIED OUT, BUT SEED MEASUREMENTS INDICATE EXTENSIVE OVERLAP OF ALL SEED DIMENSION. DIMENSION. DISCRIPTION SEPARATION SEEMED TO OFFER
770 7	GROSTIS	STOLONIFERA	BENTGRASS, SEASIDE	POA	PALUSTRIS	FOWL BLUEGRASS	REMOVE FOWL BLUEGRASS AND WINDGRASS.	SCREEN		POOR				THE BEST SELECTIVITY WITH RESPECT TO WINDGRASS OF ANY OF THE TECHNIQUES TRIED, HOWEVER, THE REQUIRED PURITY OF 99.92% IS PROBABLY IMPOSSIBLE WITH CONVENTIONAL TECHNIQUES.
. 7 U A		LIGHTERA						ELECTROSTATIC		POOR				The state of the s
\vdash				APERA	SPICA-VENTI	WINDGRASS		PNEUMATIC		POOR			THIS TEST WAS RUN WITH	
1048 A	GROSTIS	STOLONIFERA	CREEPING BENTGRASS	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE ANNUAL BLUEGRASS	SCREENS	40X40 WW 6X50WW 6X42 WW 38X38WW	GOOD			THIS TEST WAS KUN WITH SAMPLES FROM OUR HERBARIUM. SCREENS THAT WERE SELECTED WERE TESTED TO SEE IF THEY WOULD HOLD ANNUAL BLUEGRASS AND DROP BENTGRASS. TWO NOXIOUS WEEDS WERE	USE SCREENS TO REMOVE ANNUVAL BLUEGRASS FROM BENTGRASS
									DINING HERE				TWO NOATOUS MEDUS WEED SEED LOTS. OTHER WEED SEED INCLUDING PINEAPPLE WEED, SHEPARDS PURSE, AND SKUNKWEED WERE ALSO PRESENT IN VARYING QUANTITIES. BOTH NOXIOUS SPECIES OCCURRED AT VERY LOW LEVELS MAKING RESULTS OF	USE 6X50 WOVEN WIRE SCREEN TO REMOVE ANNUAL BLUEGRASS FROM BENTGRASS. USE 6X50 WOVEN WIRE SCREEN AND/OR 1MM INDENT CYLINDER TO REMOVE
									PINNING-LIFTED	1		1	IDEVELS MAKING RESULTS OF	CONTRACT CATALINDER TO REMOVE
1093 A	GROSTIS	STOLONIFERA	BENTGRASS	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE POA ANNUA AND HYPERICUM PERFORATUM	ELECTROSTATIC	FRACTION	FAIR			TESTS QUESTIONABLE.	ST.JOHNSWORT.
1093 A	GROSTIS	STOLONIFERA	BENTGRASS	POA	ANNUA	ANNUAL BLUEGRASS ANNUAL BLUEGRASS		INDENT CYLINDER	1MM-UNLIFTED FRACTION	FAIR POOR				
1093 A	GROSTIS	STOLONIFERA	BENTGRASS	POA		ANNUAL BLUEGRASS		INDENT CYLINDER	1MM-UNLIFTED FRACTION 6X50 WW THRU	POOR		100		
1093 A	GROSTIS	STOLONIFERA	BENTGRASS	POA	ANNUA	ANNUAL BLUEGRASS ANNUAL BLUEGRASS		INDENT CYLINDER SCREEN	1MM-UNLIFTED FRACTION 6X50 WW THRU FRACTION PINNING-LIFTED	POOR		100		
1093 A	GROSTIS	STOLONIFERA	BENTGRASS	POA	ANNUA	ANNUAL BLUEGRASS		INDENT CYLINDER SCREEN	1MM-UNLIFTED FRACTION 6X50 WW THRU FRACTION PINNING-LIFTED FRACTION	POOR		100		
1093 A	GROSTIS	STOLONIFERA	BENTGRASS	POA	ANNUA	ANNUAL BLUEGRASS ANNUAL BLUEGRASS		INDENT CYLINDER SCREEN ELECTROSTATIC INDENT CYLINDER	1MM-UNLIFTED FRACTION 6X50 WW THRU FRACTION PINNING-LIFTED	POOR		100		

NO	CROP GENUS	CROP SPECIES	CROP COMMON	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP (CR FP	NOTES	CONCLUSION
														A .018" ROUND-HOLE SCREEN MIGHT SCALP
														OF THE TANSY, BUT IT WOULD BE SLOW.
			PENNCROSS				RECOMMEND METHOD TO REMOVE TANSY							A 6X40 OR 6X42 SLOT APPEARS TO BE ABLE TO HOLD THE TANSY AND DROP THE
445	AGROSTIS	STOLONIFERA	BENTGRASS	SENECIO	JACOBEAE	TANSY RAGWORT	RAGWORT.							BENTGRASS.
														NO ANALYSIS WAS MADE, BUT
														OBSERVATIONS INDICATED GOOD RESULTS
			PENNCROSS				REMOVE RED	INDENT						WITH THE .027"X.012" INDENT CYLINDER. BASED ON SEED MEASUREMENTS, A
204	AGROSTIS	STOLONIFERA	BENTGRASS	SPERGULARIA	RUBRA	RED SANDSPURRY	SANDSPURRY	CYLINDER	.027"X.012" POCKETS	GOOD				.027"X.010" INDENT WOULD BE IDEAL.
														BEST RESULTS WERE OBTAINED WITH THE
150	AGRAGMIG	STOLONIFERA	PENNCROSS	WEEDS		WEEDS	REDUCE ASSORTED WEED	VIBRATORY	BIND MENMINDS DOOR	GOOD	100	90 100		VIBRATOR SEPARATOR. 80% OF THE LOT WAS RECOVERED AT A 99.98% PURITY.
150	AGROSTIS	SIGLONIFERA	BENTGRASS	WEEDS		WEEDS	CONTENT.	INDENT	FINE TEXTURED DECK	GOOD .	LUU	90 100		WAS RECOVERED AT A 99.96% PURITY.
				MORE WEEDS		MORE WEEDS		CYLINDER	.032"X30 GA CYLINDER			50 100		
				WEEDS		WEEDS			40X40 OVER 50X50	FAIR :	L00	46 100		
				WEEDS WEEDS		WEEDS WEEDS		ELECTROSTATIC VELVET ROLL		POOR	-			
				WEEDS		WEEDS		VELIVET ROLL		POOR				NO SEPARATIONS WERE ATTEMPTED.
														ACCORDING TO SEED MEASUREMENTS, AN
														INDENT CYLINDER WITH .046"DIAMX.012"
														TO .018"DEPTH POCKETS SHOULD SAVE 95% OF THE ORIGINAL LOT FREE OF
			PENNCROSS				REMOVE							SHEPHERDSPURSE. A CYLINDER WITH
202	AGROSTIS	STOLONIFERA	BENTGRASS				SHEPHERDSPURSE							THESE DIMENSIONS WAS NOT AVAILABLE.
														SPIKE BENTGRASS IS LIFTED MORE
														READILY THAN ASTORIA BENTGRASS IN THE PNEUMATIC SEPARATOR AND WILL ALSO
			ASTORIA				REMOVE SPIKE							TEND TO CONCENTRATE IN THE LIGHT
262	AGROSTIS	TENUIS	BENTGRASS	AGROSTIS	EXARATA	SPIKE BENTGRASS	BENTGRASS	PNEUMATIC		FAIR	97	50 98		FRACTION ON THE GRAVITY TABLE.
				AGROSTIS	EXARATA	SPIKE BENTGRASS		GRAVITY	COURSE CLOTH DECK		97	28 98		
				AGROSTIS	EXARATA	SPIKE BENTGRASS		ELECTROSTATIC		POOR				
				AGROSTIS	EXARATA	SPIKE BENTGRASS		SCREENS	VARIOUS	POOR				NO SEPARATION METHOD REDUCED THE
														SPIKE BENTGRASS TO THE REQUIRED .25%.
														THE BEST THAT COULD BE DONE WAS WITH
														THE VIBRATOR IN COMBINATION WITH THE
			ASTORIA				REMOVE SPIKE							ESM PNEUMATIC SEPARATOR WHICH SALVAGED 78% OF THE CROP WITH 1.4%
329	AGROSTIS	TENUIS	BENTGRASS	AGROSTIS	EXARATA	SPIKE BENTGRASS	BENTGRASS.	VIBRATORY		FAIR	97	42 98		SPIKE BENTGRASS.
				AGROSTIS	EXARATA	SPIKE BENTGRASS			SEQ.					
				AGROSTIS	EXARATA	SPIKE BENTGRASS		PNEUMATIC	SEQ.		97	52 99		
				AGROSTIS AGROSTIS	EXARATA EXARATA	SPIKE BENTGRASS SPIKE BENTGRASS	VELVET ROLL			POOR POOR				
			HIGHLAND	AGRUSTIS	EXARATA	SPIKE BENIGRASS	VELVET ROLL			POUR				
405	AGROSTIS	TENUIS	BENTGRASS	AGROSTIS	EXARATA	SPIKE BENTGRASS	GRAVITY							MEASUREMENTS ONLY.
							REMOVE SPIKE							
							BENTGRASS, WILD CARROT, RATTAIL							USE 6X50 WW SCREEN TO REMOVE SPIKE
1053	AGROSTIS	TENUIS	HIGHLAND BENTGRASS	AGROSTIS	EXARATA	SPIKE BENTGRASS	FESCUE	SCREEN	6X42	FAIR		50	NO WILD CARROT OR RATTAIL FESCUE WAS FOUND.	BENTGRASS FROM HIGHLAND BENTGRASS. RECLEAN THE HELD FRACTION (ABOUT 60%)
1000	1101100110	124010	DENTOIGIBE	HORODITO		DI IKE BENTOKIBO	125002	SCREEN	6X50	FAIR		90	rabeed will reeks.	RECEDIAL THE HEEP PRINCIPLE (HEECT 500)
				AGROSTIS	EXARATA	SPIKE BENTGRASS								
													AN ATTEMPT WAS MADE TO REMOVE THE AWNS IN HOPES THAT THE	NO ACCEPTABLE SEPARATION COULD BE
													SEED COULD THEN BE SEPARATED,	MADE. IF THE AWNS COULD BE REMOVED
													BUT 5 HOURS IN A JAMES	FROM THE HAIRGRASS, IT MIGHT BE
			COLONIAL				REMOVE SILVER						DEBEARDER COULD NOT TOTALLY	POSSIBLE, BUT AN ATTEMPT TO DO THIS
208	AGROSTIS	TENUIS	BENTGRASS	AIRA	CARYOPHYLLEA	SILVER HAIRGRASS	HAIRGRASS	ELECTROSTATIC	GLOWN AND DEDE MESS	POOR	-		REMOVE THE AWNS.	WAS UNSUCCESSFUL.
				AIRA	CARYOPHYLLEA	SILVER HAIRGRASS		GRAVITY	CLOTH AND PERF METAL DECKS	POOR				
				AIRA	CARYOPHYLLEA	SILVER HAIRGRASS		SPIRAL		POOR	+			
				AIRA	CARYOPHYLLEA	SILVER HAIRGRASS		VELVET ROLL		POOR				
									CROCUS CLOTH &	L				
				AIRA	CARYOPHYLLEA	SILVER HAIRGRASS		VIBRATORY	SANDPAPER DECKS	POOR	+	-		THE VIBRATOR YIELDED EXCELLENT
							REMOVE SILVER							RESULTS WITH 80% OF THE LOT
			HIGHLAND				HAIRGRASS AND							ESSENTIALLY WEED FREE AND ANOTHER 10%
270	AGROSTIS	TENUIS	BENTGRASS	AIRA	CARYOPHYLLEA	SILVER HAIRGRASS	HAIRGRASS.	VIBRATORY	FINE SANDPAPER DECK	GOOD				WITH AN OCCASIONAL WEED.
					-			VIBRATORY PNEUMATIC	FINE SANDPAPER DECK	GOOD POOR	-			
					+			PNEUMATIC		POOR	+			
				AIRA	CARYOPHYLLEA	SILVER HAIRGRASS								
													THE PNEUMATIC SEPARATOR MADE	MILE THERMS ON THESE ASSESSMENT
			ASTORIA					INDENT					A DEFINITE SEPARATION, BUT THE FRACTIONS WERE NOT	THE INDENT CYLINDER MADE A GOOD SEPARATION, RECOVERING 80% OF THE
167	AGROSTIS	TENUIS	BENTGRASS	CERASTIUM	VULGATUM	MOUSEAR CHICKWEED	REMOVE BIG MOUSE-EAR	CYLINDER	1/25 X 24GA CYLINDER	GOOD			ANALYZED.	CROP WITH 66 MOUSEAR/GRAM.
				CERASTIUM	VULGATUM	MOUSEAR CHICKWEED		PNEUMATIC						
				CERASTIUM	VULGATUM	MOUSEAR CHICKWEED		ELECTROSTATIC		POOR				
				CERASTIUM	VULGATUM	MOUSEAR CHICKWEED		VIBRATORY	1	POOR				
				CERASTIUM	VULGATUM	MOUSEAR CHICKWEED		VELVET ROLL		DOOD				

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP	CR	FP NOTES	CONCLUSION
							A 1/25X24GA INDENT CYLINDER HAD BEEN RECOMMENDED IN PS#167 TO REMOVE BIG MOUSEAR FROM BENTGRASS. VERY FAVORABLE REPORTS WERE RECIEVED, BUT NOW IT WAS NOT REMOVING ALL THE MOUSEAR. NEW SEED							
242	AGROSTIS	TENUIS	ASTORIA BENTGRASS	CERASTIUM	VULGATUM	BIG MOUSEAR	MEASUREMENTS AND A RECOMMENDATION WERE REQUESTED.							
242	AGROSTIS	IENOIS	ASTORIA	CERASTION	VOLGATON	BIG NOOSBAK	REGORDIED.		SEQ.PINNED FRACT RUN	1				NO ACCEPTABLE RESULTS WERE OBTAINED ALTHOUGH 5 PASSES ON THE ELECTROSTATIC FOLLOWED BY 3 PASSES ON THE VIBRATOR SEPARATORS YIELDED A CLEAN FRACTION THAT WAS 74% OF THE
267	AGROSTIS	TENUIS	BENTGRASS	ERGOT		ERGOT	REMOVE ERGOT	ELECTROSTATIC	5 TIMES	FAIR				ORIGINAL LOT.
				ERGOT		ERGOT		VIBRATORY	SEQ.3 PASSES	FAIR				
				ERGOT		ERGOT ERGOT		PNEUMATIC GRAVITY		POOR				
440	AGROSTIS	TENUIS	ASTORIA BENTGRASS	ERGOT		ERGOT	REMOVE ERGOT	PNEUMATIC		POOR			ALL DIMENSIONS ARE SO SIMILAR THAT A SIZE SEPARATION IS NOT POSSIBLE.	NO SUCCESS WITH THIS PROBLEM.
110	AGROSTIS	TENOIS	BENTGRADO	ERGOT		ERGOT	REMOVE ERGOT	ELECTROSTATIC		POOR			POSSIBBE.	NO SOCCESS WITH THIS PROBLEM.
				ERGOT		ERGOT		MAGNETIC		POOR				
			ASTORIA				REMOVE INERT MATERIAL (MOSTLY ERGOTIZED SEED AND SOME STEMS AND							RESULTS WERE POOR. THE BEST BEING THE PNEUMATIC/SCREEN SEQUENCE WHICH SALVAGED ABOUT 15% OF THE LOT AS
49	AGROSTIS	TENUIS	BENTGRASS	INERT		INERT INERT	STRAW).	PNEUMATIC	SEQ.	DATE				NEARLY PURE BENTGRASS.
				INERT		INERT		SCREEN VELVET ROLL	SEQ.45X45	FAIR				
				INERT		INERT		SCREENS		POOR				
				INERT		INERT		ELECTROSTATIC		POOR				
				INERT INERT		INERT		GRAVITY VIBRATORY		POOR				
727	ACDOCTTC	TENNII C	GOGINAN COLONIAL	TMEDIT		INFR	REMOVE INERT MATTER WHICH IS 6.34% OF TOTAL WEIGHT. CONSISTS OF LIGHT MATERIAL (HULLS AND CHAFF) AND HEAVY MATERIAL (DIRT CLODS	DNEIMATIC	CEO CDD 175 EDM	COOD	9.4	0.5	GRAVITY TABLE WAS ALSO TRIED BUT BECAUSE OF SMALL SAMPLE SIZE RESULTS WERE NOT	OPTIMIZATION OF PNEUMATIC OF GRAVITY COULD YIELD HIGH PURITY PRODUCT. FRICTION YIELDS CLEANER PRODUCT BUT
121	AGROSTIS	TENUIS	BENTGRASS	INERT		INERT INERT	AND SAND PARTICLES).	PNEUMATIC PNEUMATIC	SEQ SDB 175 FPM SEQ SDB 275 FPM	GOOD	94	85 85		INCREASED LOSS.
				INERT		INERT		FRICTION	4 PASSES ON NAUGAHIDE BELT AND VINYL SEPARATOR BAR INCLINED 14 DEGREES	FAIR		90		
731	AGROSTIS	TENUIS	COLONIAL BENTGRASS	INERT		DIRT CLODS, SAND	REMOVE INERT MATERIAL	GRAVITY	FINE TEXTURED DECK					GRAVITY TABLE CAN BE USED TO REMOVE DIRT AND SAND FROM VERY SMALL SEED USING PROPER OPERATING CONDITIONS.
			COLONIAL										A SEQUENCE OF SCREENS FOLLOWED BY PNEUMTIC SEPARATION REMOVED A LARGE PORTION OF THE INERT MATERIAL	
1051	AGROSTIS	TENUIS	BENTGRASS	INERT	-	CHAFF	REMOVE INERT	SCREENS PNEUMATIC	SEQ 50X50 WW 6X36 WW	GOOD GOOD	70 70		94 IN THIS SAMPLE.	CHAFF FROM BENTGRASS.
			ASTORIA	INEKI		CHAFF	REMOVE ROUGH	PNEUMATIC	SEQ SDB	GOOD	70		74	THE VIBRATOR PERFORMED THE BEST YIELDING 93% OF THE SAMPLE WITH VERY FEW BLUEGRASS. THE INDENT CYLINDER
277	AGROSTIS	TENUIS	BENTGRASS	POA POA	TRIVIALIS	ROUGH BLUEGRASS	BLUEGRASS.	VIBRATORY INDENT CYLINDER	600 SANDPAPER DECK	FAIR				YIELDED 89% WITH FEW BLUEGRASS.
\vdash				POA	TRIVIALIS TRIVIALIS	ROUGH BLUEGRASS		PNEUMATIC	.069"X.025" CYLINDER	POOR				
				POA	TRIVIALIS	ROUGH BLUEGRASS		GRAVITY		POOR				THE .032 SPECIAL INDENT CYLINDER ALMOST COMPLETELY REMOVED THE YELLOWCRESS WITH 20% SHRINKAGE AND
909	AGROSTIS	TENUIS	HIGHLAND BENTGRASS	RORIPPA	CURVISILIQUA	WESTERN YELLOWCRESS	REMOVE WESTERN YELLOWCRESS	INDENT CYLINDER INDENT CYLINDER	.032 SPECIAL INDENT 1 MM KAMAS-WESTRUP INDENT					THE 1MM KAMAS-WESTRUP INDENT CYLINDER ALMOST COMPLETELY REMOVED THE YELLOWCRESS WITH 40% SHRINKAGE.
200	NGDOG##5	TIDNY I G	ASTORIA	unprous.		TANK AND TANK	REMOVE INERT MATERIAL, CROP SEEDS, MOUSE-EAR, TOADRUSH, SPEEDWELL,	INDENT CYLINDER	SEQ032"X.012"	goon				THE FINAL SAMPLE APPEARED TO BE FREE OF WEEDS AFTER RUNNING THE LOT IN A .032'X.012" INDENT CYLINDER AND A
308	AGROSTIS	TENUIS	BENTGRASS	VARIOUS VARIOUS	+	VARIOUS VARIOUS	ETC.	CYLINDER SCREEN	CYLINDER SEQ.1/32 ROUND HOLE	GOOD				1/32 ROUND HOLE SCREEN.
207	NGDOG#75	manyur o	ASTORIA				REMOVE SPIKE		2,12,12,13000 1000	2332				NO TRIALS WERE PERFORMED BECAUSE MUCH TIME HAD BEEN SPENT ON THE SAME PROBLEM WITH OTHER BENTGRASS SAMPLES,
	AGROSTIS	TENUIS	BENTGRASS HOLFIOR				BENTGRASS REMOVE SILVER						BECAUSE SEED DIMENSIONS ARE SO SIMILAR, SEPARATION BASED ON DIMENSIONS IS NOT	WITH NO SUCCESS. THE VIBRATOR CONCENTRATED THE SILVER
441	AGROSTIS		BENTGRASS	AIRA	CARYOPHYLLEA	SILVER HAIRGRASS	HAIRGRASS	VIBRATORY		FAIR			POSSIBLE.	HAIRGRASS IN THE UPHILL FRACTION.

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R F	P NOTES	CONCLUSION
726 AGROSTIS		PARY'S MT. BENTGRASS	APERA	SPICA-VENTI	WINDGRASS	REMOVE WINDGRASS AND OTHER MISCELLANEOUS CONTAMINANTS	GRAVITY	DECK TEXTURE=FINE CLOTH, AIR=1.5, ENDSLOPE=12, SPEED=650, BACKSLOPE=1	GOOD	94	75 9	INITIAL TESTS USED FRICTION SEPARATOR, SCREENS AND PNEUMATIC SEPARATOR BUT GRAVITY TABLE GAVE BEST 99 RESULTS.	CONTAMINANT LEVELS FOR THIS SAMPLE SHOULD BE ABOUT 1% IN THE CLEANED PORTION USING THE GRAVITY TABLE
			HOLOSTEUM VULPIA	UMBELLATUM MYUROS	JAGGED CHICKWEED RATTAIL FESCUE		GRAVITY GRAVITY	DECK TEXTURE=FINE CLOTH	GOOD GOOD			99	
			CAPSELLA		SHEPHERDS PURSE		GRAVITY		GOOD		9	99	
			PUCINELLIA		ALKILIGRASS	REMOVE SHEPHERDS	GRAVITY		GOOD	10	90 9	99	GOOD RESULTS WERE OBTAINED WITH THE GRAVITY TABLE AND PNEUMATIC
561 AGROSTIS		BENTGRASS	CAPSELLA	BURSA-PASTORIS	SHEPHERDS PURSE	PURSE.	GRAVITY		GOOD	10	0 10	00	SEPARATORS
			CAPSELLA		SHEPHERDS PURSE		PNEUMATIC	.024 OVER .020 ROUND-	GOOD				
			CAPSELLA		SHEPHERDS PURSE		SCREENS	HOLE .024 OVER .020 ROUND-					
			CAPSELLA	BURSA-PASTORIS	SHEPHERDS PURSE		AIR-SCREEN	HOLE					A GOOD SEPARATION WAS ACHIEVED USING
500 AGROSTIS		ENATE BENTGRASS	CERASTIUM	VISCOSUM	STICKY MOUSE-EAR	REMOVE SILVER HAIRGRASS AND STICKY MOUSE-EAR.	INDENT CYLINDER	SEQ.SPECIAL INDENT	GOOD				THE ABOVE SEQUENCE. THE FINAL CLEAN CROP YIELD WAS ABOUT TWO-THIRDS OF THE ORIGINAL LOT AND CONTAINED LESS THAN 0.5% TOTAL WEED CONTENT.
			AIRA		SILVER HAIRGRASS		VIBRATORY	SEQ.135 GRIT SANDPAPER DECK	GOOD				
337 AGROSTIS		EXETER BENTGRASS	DIRT CLODS		DIRT CLODS	REMOVE DIRT CLODS.	INDENT CYLINDER	.032"X.012" CYLINDER	GOOD	97 8	84 10	00	EXCELLENT RESULTS WITH THE .032"DIA X .012"DEEP INDENT CYLINDER WHICH YIELDED 96% OF THE CROP AT 99.5% PURITY.
			DIRT CLODS DIRT CLODS		DIRT CLODS DIRT CLODS	REMOVE DIRT CLODS. REMOVE DIRT CLODS.	GRAVITY SCREENS		FAIR POOR				
			DIRT CLODS		DIRT CLODS	REMOVE DIRT CLODS. REMOVE DIRT CLODS.	VELVET ROLL		POOR				
702 AGROSTIS		BENTGRASS	HOLCUS	LANATUS	VELVET GRASS	REMOVE VELVET GRASS	GRAVITY		FAIR			PNEUMATIC, BOUNCE PLATE AND VIBRATION SEPARATORS WERE ALSO ABLE TO SIGNIFICANTLY REDUCE THE CONTAMINANT. THE SPIRAL, DRAPER, VELVET ROLL AND SCREENS WERE UNSUCCESSFUL.	THE GRAVITY TABLE, PNEUMATIC, BOUNCE PLATE AND VIBRATOR SEPARATORS WERE ABLE TO SIGNIFICANTLY REDUCE THE CONTAMINANT.
580 AGROSTIS		EMERALD BENTGRASS	INERT		INERT	REMOVE DIRT CLODS	OTHER	SEQ. CRUSHING ROLLS: WOOD/RUBBER	GOOD			GRAVITY TABLE, PNEUMATIC, VELVET ROLL, AND MAGNETIC SEPARATORS WERE TRIED WITH NO SUCCESS. THE FRICTION SEPARATOR SHOWER SOME PROMISE, BUT NOT ENOUGH.	A VERY SUCCESSFUL METHOD TO REMOVE THE DIRT CLODS FROM THE BENTGRASS WAS TO CRUSH THE CLODS WITH THE CRUSHING ROLLS (A HARDWOODROLL WITH A FIRM RUBBER ROLL) AND THEN SCREEN WITH A 60%60 SCREEN. SOME GROAT DAMAGE DID OCCUR.
			INERT		INERT	DETERMINE PROPER	SCREEN	SEQ. 60X60 WIRE MESH	GOOD				BASED ON SEED MEASUREMENTS, .027 X .011 INCH PERFORATED METAL WAS
725 AGROSTIS		BENTGRASS	INERT	BUFONIUS	TOADRUSH	INDENT SIZE TO REMOVE TOADRUSH.							RECOMMENDED FOR CONSTRUCTION OF A SPECIAL INDENT CYLINDER. A .024* ROUND HOLE SCREEN RECOVERED
897 AGROSTIS		BENTGRASS	JUNCUS JUNCUS	BUFONIUS BUFONIUS	TOADRUSH TOADRUSH	REMOVE TOADRUSH	SCREENS SPIRAL	.024 OVER .020 ROUND-	GOOD POOR	75			54% OF THE MATERIAL WITH 1% TOADRUSH. THE .020° SCREEN RECOVERED AN ADDITIONAL 20% OF THE MATERIAL WITH 10% TOADRUSH AND THE REMAINING THROUGH FRACTION WAS 26% OF THE MATERIAL WITH 80% TOADRUSH.
			JUNCUS JUNCUS	BUFONIUS BUFONIUS	TOADRUSH TOADRUSH		DRAPER GRAVITY		POOR				
620 AGROSTIS		BENTGRASS, PENNCROSS	MATRICARIA	MATRICARIOIDES	PINEAPPLE WEED	REMOVE PINEAPPLE WEED	SCREENS	POOR	POOR	98		THIS REPORT COMBINES PROBLEM SAMPLE NOS. 620A AND 620B WHICH ARE FROM THE SAME SUBMITTER FOR THE SAME PROBLEM LOT.	THE TRIALS WERE INSPERCTIVE, BUT IT WAS RECOMMENDED TO SUBMITTER TO TRY THE AIR SCREEN TO LIFT SATISFACTORILY PURE FRACTION AND RUN THE AIR-DROPPED FRACTION ON THE GRAVITY TABLE. SUBMITTER INTENDED TO CONTACT SEED LAB TO GET OFFICIAL SAMPLE OF THE BLUEGRASS FOR USE IN MEASURING AND
485 AGROSTIS		BENTGRASS	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE ANNUAL BLUEGRASS	PNEUMATIC		POOR	98			SEPARATING TRIALS, BUT WAS NOT HEARD FROM. THE RECOMMENDATION IS TO SCREEN WITH A 38X38, THEN, TO RECOVER MORE
399 AGROSTIS		BENTGRASS	RUMEX		DOCK	REMOVE DOCK	ELECTROSTATIC		POOR	98			BENTGRASS, PUT THE OVER FRACTION ON THE GRAVITY TABLE, AND FINALLY, PUT THE LOWER FRACTION ON THE ELECTROSTATIC SEPARATOR.
470 AGROSTIS		BENTGRASS	RUMEX	PURSICARIOIDES	GOLDEN DOCK	REMOVE GOLDEN DOCK AND RIPPLESEED PLANTAIN.	GRAVITY	.02" ROUND-HOLE	GOOD	98		THIS SAMPLE HAD BEEN THROUGH A 6X40 SCREEN.	A .020" ROUND HOLE SCREEN DROPPED 98% OF THE LOT WITH ONLY ONE DOCK AND ONE PLANTAIN SEED PASSING THROUGH WITH THE SMALL SAMPLE OF BENTGRASS.
			PLANTAGO	MAJOR	RIPPLESEED PLANTAIN		ELECTROSTATIC PNEUMATIC		POOR POOR				
471 AGROSTIS		BENTGRASS	RUMEX	PERSICARIOIDES		REMOVE GOLDEN DOCK AND RIPPLESEED PLANTAIN	SCREEN	.020" ROUND-HOLE	GOOD			THIS SAMPLE HAD BEEN THROUGH A 40X40 SCREEN.	A .020" ROUND HOLE SCREEN DROPPED 98% OF THE LOT WITH VERY LITTLE OF THE CONTAMINANT PASSING THROUGH WITH THE CROP.
			PLANTAGO		RIPPLESEED PLANTAIN								

			CROP COMMON	CONTAMINANT	CONTAMINANT	CONTAMINANT COMMON				QUALI				
NO	CROP GENUS	CROP SPECIES	NAME	GENUS	SPECIES	NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	TY	IP	CR FP	NOTES	CONCLUSION
							REMOVE SANDSPURRY							RUNNING THE LOT THOUGH AN AIR-SCREEN MACHINE WITH AIR ADJUSTED TO LIFT ABOUT 15% OF THE LOT MAY REMOVE ENOUGH OF THE SANDSPURRY TO MAKE THE
544	AGROSTIS				RUBRA MATRICARIODES	SANDSPURRY	AND PINEAPPLE WEED.	VIBRATORY PNEUMATIC		POOR				BENTGRASS AC
901	AGROSTIS		BENTGRASS	PIATRICARIA	MATRICARIODES	STICKY CHICKWEED		PNEONATIC		PAIR				
1223	AGROSTIS		BENTGRASS											
240	ALLIUM	СЕРА	ONION	ALLIUM	СЕРА	HEADS	REMOVE HEADS OR PODS.	SCREEN	SEQ1.6-1/2 ROUND-HOLE	GOOD			THE VELVET ROLL AND VIBRATOR WERE UNSUCCESSFUL. TWO OTHER SEQUENCES WERE TRIED, (6-1/2RH)/(1/13)/(PNEUMATIC) AND (6-1/2RH)/(PNEUMATIC)/(ELECTROST ATIC), BUT YIELDS WERE NO MORE THAN 80%.	THE BEST RESULTS, A 95% YIELD, WERE WITH THE 6-1/2RH/ELECTROSTATIC SEQUENCE. A 90% YIELD WAS ACHIEVED WITH THE RUBBING/PNEUMATIC/ELECTROSTATIC SEQUENCE.
240	ABBION	CEFA			CEFA		PODS.		SEQ1.21.5KV, VER=10.5 ,HOR=6.75,ROT=2.5,10				NORE THAN OUT.	SEQUENCE.
				ALLIUM	CEPA	HEADS		ELECTROSTATIC		GOOD				
				ALLIUM	CEPA	HEADS		OTHER	SEQ2.RUB TO BREAK DOWN HEADS	GOOD				
				ALLIUM	CEPA	HEADS		PNEUMATIC	SEQ2.	GOOD				
									SEQ2.21.5KV, VER=10.5					
				ALLIUM	CEPA	HEADS		ELECTROSTATIC	,HOR=6.75,ROT=2.5,10	GOOD				
							REMOVE DOGFENNEL AND		20.8KV,HOR=5.75,VER=	:				THE ELECTROSTATIC SEPARATOR RECOVERED 95% OF THE ONION AS RELATIVELY CLEAN
227	ALLIUM	CEPA	ONION	ANTHEMIS ANTHEMIS	COTULA	DOGFENNEL	INERT MATERIAL.	ELECTROSTATIC SCREENS	10.75,ROT=.55	GOOD				PRODUCT.
				ANTHEMIS	COTULA	DOGFENNEL DOGFENNEL		PNEUMATIC		POOR				
416	ALLIUM	СЕРА	ONION	CONVOLVULUS	ARVENSIS	FIELD BINDWEED	REMOVE FIELD BINDWEED	SCREENS	6-1/2 RH OVER 5/64X3/4	GOOD				THE 6-1/2 ROUND-HOLE AND 5/64X3/4 SLOTTED SCREENS REMOVED THE BINDWEED WITH ONLY A SMALL LOSS OF ONION. THE PNEUMATIC SEPARATOR WAS ABLE TO LIFT THE ONION AND DROP THE BINDWEED WITH 8% LOSS.
				CONVOLVULUS	ARVENSIS	FIELD BINDWEED	FREE SEED FROM BURR	PNEUMATIC						
							AND REMOVE STEM, CHAFF AND BURR							EXCELLENT RESULTS WERE OBTAINED BY HAND RUBBING THE LOT AND THEN BLOWING
70	ALLIUM	CEPA	ONION	INERT		INERT INERT	MATERIAL.	OTHER PNEUMATIC	RUB BOARD	GOOD		100		THE LIGHT MATERIAL OFF.
				THE CONTRACT		1111111		11120111111		0002		100	SPIRAL, PNEUMATIC, AND	THE MAGNETIC SEPARATOR WORKED VERY
612	ALLIUM	CEPA	ONION	INERT		INERT	REMOVE WHITE CAPS (PEDUNCLE)	MAGNETIC	POWDER #5, 13/64 DIVIDER SETTING	GOOD			VIBRATOR SEPARATORS WERE INEFFECTIVE.	WELL, REMOVING ALMOST ALL THE WHITE CAPS WITH VERY LOW CROP LOSS. NO QUANTITATIVE EVALUATIONS WERE
665	ALLIUM	CEPA	ONION	INERT		INERT	THRESH AND REMOVE TRASH		SEQ. 1/8" CLEARANCE					MADE, BUT THE FINAL PRODUCT LOOKED VERY GOOD.
				INERT		INERT	THRESH AND REMOVE INERT MATERIAL FOR	PNEUMATIC	SEQ. #15 OVER #8 RD	GOOD				FINAL SAMPLES WERE DELIVERED TO THE OSU SEED TESTING LAB FOR GERMINATION
688	ALLIUM	CEPA	ONION	INERT		INERT	GERMINATION TESTS.	SCREEN	HOLE SEQ. HAND THRESHING					TESTS.
								OTHER	BOARD					
								PNEUMATIC	SEQ.					
								SCREEN	SEQ. 1/19 RD-HOLE				THRESHED SAMPLES WERE CLEANED	DRIED ONION CAN BE SATISFACTORILY THRESHED ON THE BELT THRESHER WITH MOST INERT MATERIAL BEING REMOVED BY AIR-SEPARATOR. EITHER MAGNETIC OR
739	ALLIUM	CEPA	WALLA WALLA SWEET ONIONS	INERT		INERT	THRESH AND PROCESS	BELT THRESHER	SEQ. #8 ROUND HOLE				WITH MAGNETIC AND GRAVITY MACHINES RESPECTIVELY.	GRAVITY TABLE WORK TO PROVIDE A HIGHLY PURE PRODUCT.
			INERT	INERT INERT		INERT		AIR-SCREEN MAGNETIC	TOP SCR, 1/14 ROUND HOLE BOTTOM SCR.	GOOD		100		
			TWEET						DECK=PERF. CU.					
				INERT		INERT		GRAVITY	W/RIDGES	GOOD		100		FAVORABLE RESULTS WERE OBTAINED WITH
														THE VIBRATOR, COLOR SORTER AND ELECTROSTATIC SEPARATOR. IN AN EFFORT TO IMPROVE GERMINATION, THE CLEAN ONION SEED WAS PROCESSED ON THE ELECTROSTATIC MACHINE AND PNEUMATIC
312	ALLIUM	CEPA		PASPALUM	DILATATUM	WATERGRASS	REMOVE WATERGRASS.	VIBRATORY	SANDPAPER DECK	FAIR			SAMPLE WAS "FLOATED" MATERIAL	
				PASPALUM PASPALUM	DILATATUM DILATATUM	WATERGRASS WATERGRASS		ELECTROSTATIC COLOR SORTER		FAIR				
							DETERMINE SIZE DISTRIBUTION OF LOT TO EXPEDITE	John John Live						LOT WAS SEPARATED INTO SIZE FRACTIONS BY 6 1/2. 6 AND 5 1/2 ROUND-HOLE
560	ALLIUM	CEPA	ONION				PLANTING.							SCREENS. SINCE EXACT REQUIREMENTS FOR GRADING THE PELLETS WAS UNKNOWN, FRACTIONS WERE OBTAINED FROM A VARIETY OF AIR SEPARATIONS, SCREENINGS, AND AN
							REMOVE LONG PELLETS FROM LOT OF PELLETED							INDENT CYLINDER SEPARATION. THESE WERE SENT TO SUBMITTER FOR
622	ALLIUM	CEPA	ONION				ONION SEED.	SCREENS INDENT	9, 9 1/2, 8, 8 1/2	-				EVALUATION.
									#10 CYLINDER					

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY IP	CR FI	NOTES	CONCLUSION
							REMOVE LOW-						THE ONION SEED WAS DIVIDED INTO THREE FRACTIONS ON THE GRAVITY SEPARATOR AND THREE FRACTIONS WITH THE PNEUMATIC SEPARATOR. THESE FRACTIONS WERE SENT TO THE SEED TESTING LAB FOR
656	ALLIUM	CEPA	ONION				GERMINATION SEED. REMOVE RUMEX AND	PNEUMATIC	VARIOUS AIR FLOWS			6X20 ALSO REMOVED BULL	GERMINATIONS. USE 6X20 WW TO RMEOVE WILD CARROT.
1078	ALLIUM	PORRUM	LEEK	DAUCUS	CAROTA	WILD CAROT	WILD CARROT	SCREEN	6X20	GOOD	100	THISTLE AND OTHERS	USE 5/64 TRIANGLE TO REMOVE RUMEX.
				RUMEX				SCREEN	5/64 TRIANGLE	GOOD	90	THIS WERE SAMPLES OF SEED FOR	
							REMOVE INERT		6X26 TOP, 30X30			HAND PLANTING AND REQUIRED	
1154	ALNUS	RUBRA	RED ALDER	INERT		CHAFF	MATERIAL	SCREENS	BOTTOM	GOOD		SOME	
				INERT		CHAFF	REMOVE NEEDLE-LIKE	PNEUMATIC	SDB	FAIR			
							SLIVERS OF FIBER FROM FINELY GROUND GRANULAR CORK PARTICLES IN ALDER BARK. THE FIBERS ARE THE PRODUCT TO						
564	ALNUS		ALDER	CORK		CORK	BE SAVED.	ELECTROSTATIC		POOR			ALL ATTEMPTS WERE UNSUCCESSFUL.
				CORK		CORK		PNEUMATIC SCREEN	.004"NYLON	POOR POOR			
3	ALOPECURUS	PRATENSIS	MEADOW FOXTAIL	BECMANNIA VULPIA LOLIUM	MYUROS PERENNE	SLOUGHGRASS RATTAIL FESCUE PERENNIAL RYEGRASS	REMOVE MISCELLANEOUS CONTAMINANTS	INDENT CYLINDER PNEUMATIC PNEUMATIC	8/64 POCKET UNLIFTED FRACTION UNLIFTED FRACTION	GOOD GOOD GOOD		PNEUMATIC SEPARATION FIRST LEAVING THE SLOUGHGRASS AND MEADOW FOXTAIL THEN INDENT SEPARATION LEAVING A CLEAN FRACTION OF CROP	USE PNEUMATIC THEN INDENT CYLINDER
				FESTUCA		TALL FESCUE		PNEUMATIC	UNLIFTED FRACTION	GOOD			
79	ALOPECURUS	PRATENSIS	MEADOW FOXTAIL	BROMUS	STERILIS	BAREN CHESS	REMOVE BARREN CHESS AND DOGFENNEL	SCREEN	4X20 WW	GOOD		MOST OF THE MATURE CHESS HAD ALREADY BEEN SCALPED OFF AND THE REMAINING CHESS WAS LARGELY IMMATURE	USE 4X20 WOVEN WIRE MESH TO REMOVE BAREN CHESS AND DOGFENNEL
				ANTHEMIS	COTULA	DOGFENNEL			4X20 WW	GOOD			
F00	at oppositions	DDAMENGIG	MEADOW	CARRY		annon	REMOVE SEDGE, SPIKERUSH, AND	DNIBHMARTO		DOOD		NO MENTION WAS MADE OF BLUEGRASS OR SPIKERUSH WAS	LENGTH SEPARATION APPEARS TO BE THE
562	ALOPECURUS	PRATENSIS	FOXTAIL	CAREX		SEDGE SEDGE	KENTUCKY BLUEGRASS	PNEUMATIC GRAVITY		POOR POOR		MADE IN THIS REPORT.	BEST APPROACH.
				CAREX		SEDGE		VIBRATORY	180 GRIT	GOOD			
				CAREX		SEDGE		INDENT CYLINDER	7/64, 8/64	GOOD			
				CAREX		SEDGE			V4-1/2	GOOD			
							GENERAL INFORMATION,						A 1/14 INCH ROUND HOLE SCREEN REMOVED
1016	ALOPECURUS	PRATENSIS	MEADOW FOXTAIL	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE ANNUAL BLUEGRASS	SCREEN	1/14 RH	GOOD		THIS TEST WAS BASED ON AN INHOUSE SAMPLE 4X22 THROUGH 6X26 SCREENS	A LARGE PERCENTAGE OF THE ANNUAL BLUERGASS.
			MEADOW				REDUCE DOCK AND					WERE TESTED WITH BEST RESULTS FOR THIS LOT COMING FROM THE	4X26 WOVEN WIRE SCREEN RETAINED ALL OF THE DOCK AND MUCH OF THE ALSIKE
107	ALOPECURUS	PRATENSIS	FOXTAIL	RUMEX TRIFOLIUM	HYBRIDUM	DOCK ALSIKE CLOVER	ALSIKE CLOVER	SCREEN SCREEN	4X26 WW 4X26 WW	GOOD FAIR	100	4X26 SCREEN	CLOVER
			MEADOW	TRIFODIOM	пъктром	ABJICE CHOVER		INDENT	4A20 HH	PAIR		DEPENDING ON TOLERANCE FOR CROP LOSS, INDENT CYLINDER SIZES 6, 7, AND 8 (64THS) WORK WELL. PNEUMATIC COLUMN ALSO GAVE GOOD RESULTS. BEST RESULTS APPEARED TO COME FROM	TOP AV22 WATER STEP CORPER TO DEMAND
813	ALOPECURUS	PRATENSIS	FOXTAIL	RUMEX	CRISPUS	CURLY DOCK	REMOVE CURLY DOCK	CYLINDER	6/64 @5 MIN	GOOD 10	0 79 10	0 THE 4X22 WW SCREEN.	USE 4X22 WOVEN WIRE SCREEN TO REMOVE CURLY DOCK FROM MEADOW FOXTAIL.
								INDENT					
				RUMEX	CRISPUS	CURLY DOCK		CYLINDER INDENT	7/64 @5 MIN	GOOD 10	0 86 10	U	
				RUMEX	CRISPUS	CURLY DOCK		CYLINDER	8/64 @5 MIN	GOOD 10			
		-		RUMEX	CRISPUS	CURLY DOCK		SCREEN	4X22 WW	BEST 10	0 93 10	0	ALL TRIALS, V-6 INDENT DISC, 1/17
			CREEPING										SCREEN AND PNEUMATIC SEPARATOR, DID
339	ALOPECURUS	-	FOXTAIL	BROMUS	TECTORUM	DOWNY BROME	REMOVE DOWNY BROME	INDENT DISC	V-6 DISC	GOOD	100 10		VERY WELL.
		+		BROMUS BROMUS	TECTORUM TECTORUM	DOWNY BROME DOWNY BROME		SCREEN PNEUMATIC	1/17 W/DAMS	GOOD	10		
540			CREEPING				REMOVE CHAFF AND		SEQ.8/64 OVER 1/15				THE DELINTER, WITH THE VACUUM FAN ON, YIELDED A CLEANER SEED, BUT ALSO REMOVED SOME SEED. A FAN SPEED CONTROL IN THE VACUUM SYSTEM WOULD HAVE PROVIDED A BETTER AIR SETTING TO
549	ALOPECURUS		FOXTAIL	CHAFF		CHAFF	DELINT SEED.	SCREENS OTHER	RD HOLE SEQ.COXBILL DELINTER	GOOD	+		REDUCE SEED LOSS.
									SEQ.6/64 OVER 1/20				
344	ALOPECURUS		CREEPING FOXTAIL	CHAFF WEEDS/STEMS		CHAFF WEEDS/STEMS	REMOVE STEMS AND WEED SEEDS TO RAISE PURITY TO A MINIMUM OF 80%.		RD HOLE #8 OVER 4X30 OVER 4X36	GOOD			THE #8/4X30/4X36 SCREENING SEQUENCE RECOVERED 73% OF THE SAMPLE WITH PURITY EXCREDING 80% PLUS PROBABLY ANOTHER 17%. THE #8/4X36/PMEMMATIC SEQUENCE RECOVERED 70% ALONG WITH ANOTHER 20% THAT PROBABLY MEETS THE PURITY REQUIREMENT.
				Managa (compare		MBBDG (GBBMC		GGDBBNG	ORO #0 OVER 4425	GOOD			
				WEEDS/STEMS WEEDS/STEMS		WEEDS/STEMS WEEDS/STEMS		SCREENS PNEUMATIC	SEQ.#8 OVER 4X36 SEQ.FRACT OVER 4X36	GOOD			
									OVER 4830				
				WEEDS/STEMS		WEEDS/STEMS		INDENT DISC		FAIR			

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI IP	CR FI	NOTES	CONCLUSION
				WEEDS/STEMS		WEEDS/STEMS		V-6-1/2 DISC		POOR			
										FOOR			THE PIGWEED WENT DOWNHILL ON
131	ALYSSUM		ALYSSUM	AMARANTHUS		PIGWEED	REMOVE PIGWEED.	VIBRATORY	FINE TEXTURED DECK			A LARGE AMOUNT OF THIS	VIBRATOR.
												MATERIAL WAS CONTAMINANT. THE THREE MACHINES LISTED	
			WHITE	MISCELLANEOU								WERE USED FOR GENERAL	USE SCREENS, INDENT CYLINDER AND
951	ALYSSUM		ALYSSUM	S MISCELLANEOU			GENERAL CLEANING	SCREENS				CLEANING OF THIS SEED LOT	GRAVITY FOR GENERAL CLEANING.
				S				CYLINDER					
				MISCELLANEOU				GRAVITY					
				5				GKAVIII				SAMPLE ORIGINALLY RECIEVED IN	
												LATE 1986. 1/16 ROUND HOLE SCREEN REMOVES STICKS. 24X24	
							REMOVE PIGWEED					WIRE MESH DROPS BLACK	
							(BLACK), STICKS, AND UNKNOWN WEED SEED.					PIGWEED, BUT UNKNOWN WEED SEED STAYS WITH CROP (THE	
1119	AMARANTHUS		AMARANTH	INERT		INERT	CROP IS WHITE SEED.	SCREEN	SEQ.1/15 ROUND HOLE			5 WHITE SEED).	1/15 RH SCREEN REMOV
				AMARANTHUS WEEDS		BLACK PIGWEED WEEDS		SCREEN DRAPER	SEQ.20X20 WIRE MESH SEQ1.	GOOD GOOD	95 9		
				WEEDS		WEEDS		PNEUMATIC	SEQ2.	GOOD	95		
				WEEDS		WEEDS		GRAVITY INDENT	SEQ3.	GOOD	99		
		-		WEEDS WEEDS		WEEDS WEEDS		CYLINDER	SEQ4. 1.3MM INDENT	FAIR			
				WEEDS WEEDS		WEEDS		VELVET ROLL FRICTION	SEQ5.	FAIR POOR			
							DETERMINE METHOD FOR REMOVING RAGWEED						
l							SEED FROM SOIL						
l		ARTEMISIIFALI					SAMPLES TO DETERMINE EXTENT OF THE		RUB BOARD TO BREAK				
74	AMBROSIA	A	RAGWEED	AMBROSIA	ARTIMISIIFALIA	RAGWEED	RAGWEED PROBLEM.	OTHER	CLODS AND FREE SEED.	POOR			RESULTS OF THE
									WASH SAMPLE THROUGH 1/20 AND 1/24 RD				
				AMBROSIA	ARTIMISIIFALIA	RAGWEED		SCREENS	HOLE				
l				AMBROSIA	ARTIMISIIFALIA	RAGWEED		SCREEN	#8 TO PASS SEED IN HULL				
									WASHED SAMPLE DRIED				
				AMBROSIA	ARTIMISIIFALIA	RAGWEED		PNEUMATIC	& BLOWN CHAFFY GRASS DIVIDER				
				AMBROSIA	ARTIMISIIFALIA	RAGWEED		OTHER	TO OBTAIN SAMPLE				
									LAH WITH #26 ROUND WIRE MANTLE AND FINE				USE LAH HULLER SCARIFIER WITH #26
1096	AMERIA	MARITINA	AMERIA	AMERIA		AMERIA WITH FUZZ	DEFUZZ	SCARIFIER	BRUSHES	GOOD		MATERIAL WAS RUN AS BATCH.	ROUND WIRE SCREEN WORK ON THIS SAMPLE WAS NOT
													COMPLETED. THE FIRST TWO SCREENS
							REMOVE STEMS,						REMOVED THE BULK OF THE INERT MATERIAL, BUT CLOGGED READILY. THE
			SAND				LEAVES, EMPTIES,		#12 ROUND OVER				BLOWER/SCREEN SEQUENCE APPEARED
44	ANDROPOGON	HALII	BLUESTEM	INERT		INERT	FLORETS.	SCREENS PNEUMATIC	1/22X1/2 SLOT SEQ.				PROMISING.
				INERT		INERT		SCREEN	SEQ.#10 ROUND, AIR- DROPPED FRACTION				
			OLD WORLD	INEKI		INERI		SCREEN					THE PNEUMATIC SCARIFIER WAS THE ONLY
638	ANDROPOGON ANEMONE	PULSATILLA	BLUESTEM AMEMONE	AMENONE		ANEMONE IN THE HULL	DEBEARD THE SEED.	OTHER OTHER	SANDPAPER ROLLER SANDPAPER DISKS	POOR POOR			MACHINE TO YIELD GOOD RESULTS.
1111	ANEMONE	FORSKITER	AMENONE	AMENONE		ANEMONE IN THE HOBE	DEBEARD AND CHEAR	OTHER	SANDEREEK DIGKS	FOOR			THE PNEUMATIC SCARIFIER YIELDED GOOD
							REMOVE FLUFF FROM						RESULTS AND, FROM SUBSEQUENT GERMINATION TESTS, LITTLE OR NO SEED
843	ANEMONE		ANEMONE	FLUFF		FLUFF	SEEDS.	BELT THRESHER	GRO 1 /01 POTENT WGT	POOR			DAMAGE RESULTED.
1				FLUFF		FLUFF		SCREEN SCARIFIER	SEQ.1/21 ROUND-HOLE	GOOD			
							THE CHANG OF BAN						THE SEED WAS CONDITIONED WITH THE
889	ANENOME		ANEMONE	INERT		INERT	THRESH AND CLEAN ANEMONE SEED.	SCARIFIER	FILAMENT				FILAMENT THRESHER. DAMAGE TO SEED IS UNKNOWN.
													BASED ON THESE TRIALS AND THEIR OWN ATTEMPTS, SUBMITTER INTENDS TO TRY
													SCREENING WITH DAMS ON SCREEN TO
619	ANETHUM	GRAVEOLENS	DILL	INERT		INERT	REMOVE STEM MATERIAL	SCREENS PNEUMATIC		POOR POOR			UPEND STEMS AND GRAVITY TABLE.
										1			A #18 INDENT CYLINDER PROBABLY WOULD
									SEQ.4X20 SLOT OVER				HAVE DONE A BETTER JOB. THE BLOWER SHOWED ENCOURAGING RESULTS IN LIFTING
512	ANETHUM	GRAVEOLENS	DILL	TWIGA	STICKIS	STICKS	REMOVE STICKS.	SCREENS	6X26	FAIR			LIGHT INERT MATERIAL.
l				TWIGA	STICKIS	STICKS		INDENT CYLINDER	SEQ.#20 CYLINDER	FAIR			
				TWIGA	STICKIS	STICKS	CONDITION SEED,	PNEUMATIC	SEQ.#10 OVER 1/14	FAIR			SAMPLES SENT TO SUBMITTER FOR
876	ANISUM		ANISE	INERT		INERT	REMOVE TAILS.	AIR-SCREEN	SCREENS				EVALUATION.
				TAILS INERT		TAILS INERT		BELT THRESHER GRAVITY	SEQ.4 PASSES SEQ.		+		
				ZIVERCI .				CLAVIII	oug.			THIS SAMPLE WAS FROM A TEST	
l												PLOT AND CONTAINED A VERY LARGE QUANTITY OF NON SEED	
1000		onon.m	SWEET VERNAL				REMOVE INERT					MATERIAL FROM THE PLANT	
1028	ANTHOXANTHUM	ODORATUM	GRASS	INERT INERT		INERT	MATERIAL.	SCREENS SCARIFIER				(>90%).	
		*											

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP CR	FF	NOTES	CONCLUSION
													THE SCREENING, VELVET ROLL, VIBRATOR SEQUENCE PRODUCED A SAMPLE THAT WAS SATISFACTORILY CLEAN. AS A SEPARATE TRIAL, THE ELECTROSTATIC SEPARATOR PINNED THE SNAPDRAGON WITH MUCH
132 ANTIRRHINUM		SNAPDRAGON	AMARANTHUS		PIGWEED	REMOVE PIGWEED	SCREEN	SEQ.1/24 SCREEN	GOOD				GREATER FREQUENCY THAN THE PIGWEED.
			AMARANTHUS		PIGWEED		VELVET ROLL	SEQ.THROUGH FRACTION FROM SCREEN	GOOD				
			TRASH		TRASH		VIBRATORY	SEQ.FINE TEXTURED DECK	GOOD				
								17KV, HOR-7-1/2, VERT-10-1/2, ROT=-1-					
			AMARANTHUS		PIGWEED	TEST ELECTROSTATIC	ELECTROSTATIC	3/4	GOOD				
1009 APIUM	GRAVEOLENS	CELERY	APIUM	GRAVEOLENS	CELERY	SEPARATOR TO IMPROVE GERMINATION	ELECTROSTATIC						
						REMOVE WEEDS INCLUDING LAMBSQUARTERS, PIGWEED AND HAIRY						THIS MATERIAL WAS CONTAINED	
						NIGHTSHADE FROM CELERY. ALSO REMOVE		SEQ.1/22RH THEN				IN THREE LOTS WITH VARYING DEGREES OF CONTAMINATION.	
1173 APIUM	GRAVEOLENS	CELERY	CHENOPODIUM	ALBUM	LAMBSQUARTERS	SOIL.	SCREENS	6X23WW+AIR SEQ.1/22RH THEN	GOOD	9(0	SCREENING FOLLOWED BY	
			AMARANTHUS		PIGWEED		SCREENS	6X23WW+AIR SEQ.1/22RH THEN	GOOD	9(0		
			SOLANUM	VILLOSUM	HAIRY NIGHTSHADE	SUBMITTER ASKED FOR	SCREENS	6X23WW+AIR	GOOD	100	0		
						CONTAMINANTS TO BE REMOVED, ESPECIALLY GLASS FRAGMENTS AND NIGHTSHADE. HOWEVER, NO GLASS OR NIGHTSHADE WAS FOUND SO INERT MATERIAL, PIGWEED, ALFALF WERE							TWO HUNDRED GRAM SAMPLES SCREENED BY 1/17 RH, THEN BLOWN TO REMOVE ALMOST ALL INERT MATERIAL AND A FEW ALFALFA
1125 APIUM	GRAVEOLENS	CELERY	INERTIS INERTIS	STEMOIDES STEMOIDES	INERT MATERIAL	REMOVED.	SCREEN PNEUMATIC	SEQ.1/17 ROUND-HOLE SEQ.	GOOD	80 10	0 10	0	SEEDS IN THE HULL. TO REMOV
			AMARANTHUS		PIGWEED		DRAPER	SEQA.	GOOD	100	0 10	0	
			MEDICAGO AMARANTHUS	SATIVA	ALFALFA PIGWEED		DRAPER VELVET ROLL	SEQA. SEQB.	GOOD		0 10 0 10		
			MEDICAGO	SATIVA	ALFALFA		VELVET ROLL	SEQB.	GOOD	100			
			AMARANTHUS		PIGWEED		GRAVITY	SEQC.	POOR				
			MEDICAGO	SATIVA	ALFALFA		GRAVITY	SEQC.	POOR		-		
						SIZE SEED ACCORDING TO WIDTH, THICKNESS AND DENSITY IN PREPARATION FOR		SEQ038 OVER .033					THE .038/.033/.027 SCREENS SCALPED OFF MOST CONTAMINANTS. THE FRACTIONS HELD BY THE .033 AND .027 WERE RIN THROUGH THE BLOWER. THE TWO HEAVY FRACTIONS FROM THE BLOWER WERE THEN DIVIDED IN HALF BY 6X25 AND 6X26
324 APIUM	GRAVEOLENS	CELERY	N/A		N/A	PLANTING TRIALS.	SCREENS	OVER .027 SEQ.FRACTION OVER	GOOD				SLOTS.
			N/A		N/A		PNEUMATIC	.033 SEQ.6X25, HEAVY	GOOD				
			N/A		N/A		SCREEN	FRACT FROM PNEUMATIC SEQ.FRACTION OVER	GOOD				
			N/A		N/A		PNEUMATIC	.027 SEQ.6X26, HEAVY	GOOD				
			N/A		N/A		SCREEN	FRACT FROM PNEUMATIC	GOOD				
700 APIUM	GRAVEOLENS	CELERY	PICRIS	ECHIODES	OXTONGUE	REMOVE OXTONGUE	DRAPER	24.5 DEG ANG, 35 RPM, 5 PASSES	GOOD			SPIRAL, INDENT CYLINDER, FRICTION, AND VELVET ROLL YIELDED UNSATISFACTORY RESULTS. FOR THE 1/21 ROUNDHOLE SCREEN TRIAL, THE SCREEN WAS MOUNTED ON AN ELECTROMAGNETIC VIBRATOR AND THE OXTONGUE SLID FLAT ALONG THE 0 SCREEN.	BEST RESULTS WERE OBTAINED WITH THE 1/21 SCREEN AND INCLINED DRAPER.
			PICRIS PICRIS	ECHIODES ECHIODES	OXTONGUE OXTONGUE		PNEUMATIC SCREEN	1/21 RD HOLE	GOOD	100		0	
1021 APIUM	GRAVEOLENS	CELERY				SEPARATE SPLITS FROM				1 1200	1		A TOTAL OF ABOUT 21% OF THE ORIGINAL
505 ARACHIS	HYPOGAEA	PEANUT, RUNNER-TYPE	ARACHIS	HYPOGAEA	PEANUT	WHOLE, RUNNER-TYPE PEANUT KERNELS.	SCREEN SCREEN	SEQ.20/64 ROUND-HOLE SEQ.14/64X3/4	GOOD	6.	7	MORE SPLITS	WEIGHT CAN BE OBTAINED AS SPLITS BY THE ABOVE SCREENING SEQUENCE.
						REMOVE PEANUT FINES						FINES ARE PEANUT PARTICLES	A CONTINUOUS TYPE PNEUMATIC SEPARATOR
761 ARACHIS	HYPOGAEA	PEANUT	ARACHIS	HYPOGAEA	PEANUT FINES	FROM MIX OF SLICED PEANUTS AND FINES.	ELECTROSTATIC		POOR			THAT PASS THROUGH US STANDARD SCREEN SIZE #20.	DID AN ADEQUATE JOB OF REMOVING FINES FROM SLICED PEANUTS.
			ARACHIS	HYPOGAEA	PEANUT FINES	TEST FRICTION	PNEUMATIC	AIR FLOW=400FPM	GOOD	7:	2 9		
						SEPARATOR TO REMOVE CORN AND INERT		SEQ. SEP. BAR NEARLY				TWO SEPARATE BUT SIMILAR PEANUT SAMPLES WERE RUN	TWO RUNS ON THE FRICTION SEPARATOR WERE NECESSARY. ONE, WITH VERTICAL
824 ARACHIS	HYPOGAEA	PEANUT	INERT		INERT	MATERIAL.	FRICTION	VERT. SEQ. SEP. BAR AT 30	GOOD	83 90	0 9	5 YIELDING SIMILAR RESULTS.	BAR, TO REM
			ZEA	MAYS	CORN		FRICTION	DEG.	GOOD	95 84	4 9	7	
						REMOVE VINE/STEM, UNSHELLED PEANUTS, MUD BALLS, ROCKS, CORN, SEED PODS, GLASS, AND SPLITS		FOAM BAR(25 DEG FORWARD ANGLE),				THE PURPOSE OF THIS TEST WAS TO REVIEW SEVERAL TESTS CONDUCTED BY PERT LABS USING	OUR FINDINGS CONFORMED CLOSELY TO THOSE OF PERT LABS. FEED RATE IS CRITICAL WITH SINGLE FILE BEING OPTIMUM. 25 DEGREE FORWARD ANGLE OF
691 ARACHIS	HYPOGAEA	PEANUT	MISC.		MISC.	FROM WHOLE KERNELS.	FRICTION	CARPET BELT	GOOD			OUR FRICTION SEPARATOR.	BAR IS OPTIMUM.

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI IP	CR FP	NOTES	CONCLUSION
368	ARACHIS	HYPOGAEA	GROUNDNUT (PE ANUT)	RICINUS	COMMUNIS	CASTOR BEAN	REMOVE CASTOR BEANS.	SCREEN	.406" ROUND-HOLE	GOOD			THE .406" ROUND HOLE SCREEN
	ARACHIS	HYPOGAEA	PEANUT	ROCKS	TRASH	ROCKSANDTRASH	REMOVE ROCKS AND TRASH	PNEUMATIC	E.S.M.	GOOD	100 100		THE PNEUMATIC SEPARATOR REMOVED ALL FOREIGN MATERIAL FROM THE PEANUTS.
	ARACHIS	HYPOGAEA	PEANUT, VIRGINIA- TYPE	SPLITS	IRASH	SPLITS	SEPARATE SPLITS FROM WHOLE PEANUTS.	SCREEN	SEQ.21/64" ROUND-HOLE	GOOD	100 100	PEANUTS PASSING THROUGH THE 21/64" SCREEN WERE PLACED ON 13/64" SCREEN TO REMOVE MORE SPLITS.	FOREIGN WATERIAL FROM THE PEARNIS. THE ABOVE SCREENING SEQUENCE REMOVED 55% OF THE ORIGINAL MATERIAL CONSISTING OF SPLITS AND ABOUT 3 1/2% WHOLE KERNELS.
300	ARACHIS	HIPOGALA	IIPE	SPLIIS		SPECIS	WHOLE PERMUIS.		SEQ.14/64X3/4"			SPECIAL.	WHOLE RERNELS.
							REMOVE ASSORTED	SCREEN	SLOTTED	GOOD			
614	ARACHIS	HYPOGAEA	PEANUT	STEM MATERIAL		STEM MATERIAL	UNDESIRABLES: SPLITS, STEM MATERIAL, SHELL MATERIAL AND FINE TRASH.	PNEUMATIC		GOOD	80		SUBMITTER WAS PLEASED WITH THE ABOVE SEPARATIONS.
						ant 100			ALUMINUM OR FINE				
				SPLITS SPLITS		SPLITS SPLITS		VIBRATORY FRICTION	SANDPAPER	GOOD			
				SHELL									
				MATERIAL		SHELL MATERIAL		SCREEN	#6 ROUND HOLE	GOOD			
				TRASH/SHELL		TRASH/SHELL		PNEUMATIC		GOOD			
													BASED ON THESE RESULTS, AN AIR-SCREEN
569	ARACHIS	HYPOGAEA	PEANUT	TRASH		TRASH	REMOVE TRASH.	PNEUMATIC	SEQ.				MACHINE SHOULD BE THE BEST WAY TO MAKE THIS SEPARATION.
				TRASH		TRASH		SCREEN	SEQ.#29 ROUND-HOLE	GOOD	100 100		
				TRASH		TRASH	SEPARATE WHOLE KERNELS (FREE OF SHELLS), NUBBINS (SMALL UNSHELLED PEANUTS), AND RAISINS (IMMATURE	FRICTION		FAIR		A PNEUMATIC/SCREENS SEQUENCE AND THE SPIRAL SEPARATOR DID SOME SEPARATING, BUT POORLY. THE BOUNCE PLATE, VELUET ROLL AND SPECIFIC GRAVITY	
686	ARACHUS	HYPOGAEA	PEANUT				PODS).	FRICTION		POOR		SEPARATOR WERE INEFFECTIVE.	NO CONVENTIONAL METHOD TRIE
598	ARCTAGROSTIS			POA		NUGGET BLUEGRASS	REMOVE NUGGET BLUEGRASS	PNEUMATIC					SAMPLE FRACTIONS WERE SENT TO THE SUBMITTER FOR PURITY ANALYSIS.
- 330	111011011111			POA		NUGGET BLUEGRASS	DEGEGGGG	VELVET ROLL					COMMITTED TON TONITT IMPERIORS.
				POA		NUGGET BLUEGRASS		VIBRATORY				100% REMOVAL OF CONTAMINANTS	A 1/15X1/2 SCREEN FOLLOWED BY #8
			GREAT				REMOVE WILD OATS AND					NECCESSARY FOR OVERSEAS	INDENT CYLINDER REMOVED ALL
1043	ARCTIUM	LAPPA	BURDOCK	TRITICUM AVENA	AESTIVUM FATUA	WHEAT WILD OAT	WHEAT	SCREEN SCREEN	1/15X1/2 SEQ.1/15X1/2	GOOD		EXPORT.	CONTAMINANT WITH MINOR CROP LOSS.
								INDENT	000.17101172	0002			
				AVENA	FATUA	WILD OAT		CYLINDER	#8 INDENT CYLINDER	GOOD		ALSO TRIED WERE SCREENS, PNEUMATIC SEPARATOR, VELVET	THE BEST RESULTS WERE OBTAINED WITH
601	ARCTOSTAPHYL OS		MANZANITA	PURSHIA	TRIDENTATA	BITTERBRUSH	REMOVE BITTERBRUSH	FRICTION	SEQ. POLYFOAM BAR, FIBER BELT	GOOD		ROLLS, DRAPER, SPIRAL, AND VIBRATOR WITH POOR RESULTS.	THE FRICTION SEPARATOR FOLLOWED BY SCREENING.
								SCREEN	SEQ. 10 1/2	GOOD			
863	ARCTOTIS		AFRICAN DAISY	INERT		INERT	REMOVE FUZZ, CONDITION SEED.	SCARIFIER	SEQ.FILAMENT, 2 & 4				ALL FRACTIONS RETURNED TO SUBMITTER FOR EVALUATION. GERMINATION TESTS REVEALED EXTENSIVE MECHANICAL DAMAGE TO SEED, REDUCING GERMINABILITY.
				INERT		INERT		PNEUMATIC	SEQ.				
							REMOVE INERT		SEQ02 AND .024 RD HOLE				GOOD RESULTS WERE OBTAINED BY AIR- SCREENING FOLLOWED BY PNEUMATIC
025	ARTEMESIA	INERT		INERT INERT		INERT	MATERIAL	AIR-SCREEN PNEUMATIC	SEQ.	GOOD			SEPARATION.
1007	ASPARAGUS	OFFICINALIS	ASPARAGUS	CONVOLVULUS	ARVENSIS	MORNINGGLORY	REMOVE MORNINGGLORY.	SPIRAL	LARGE SEED FLIGHT	GOOD	90		BEST RESULTS WERE OBTAINED USING THE SPIRAL OR DRAPER SEPARATORS. A 5-1/2 X 3/4 INCH SLOTTED SCREEN ALSO REMOVED ABOUT 75% OF THE MORNINGGLORY WITH ABOUT 50% LOSS OF CROP SEED
				CONVOLVULUS	ARVENSIS	MORNINGGLORY		DRAPER	30DG., .7FT./S	FAIR	95		
7				CONVOLVULUS	ARVENSIS	MORNINGGLORY		VIBRATORY	SANDPAPER	POOR			
					ARVENSIS	MORNINGGLORY		GRAVITY	CLOTHDECK	POOR			
				CONVOLVOLUS	ARVENSIS	MORNINGGLORY		OTHER	SPIRAL-AIR	POOR			THE ELECTROSTATIC SEPARATOR YIELDED
166	ASPARAGUS	OFFICINALIS	ASPARAGUS	IPOMEA		MORNINGGLORY	REMOVE MORNINGGLORY.			GOOD			THE ELECTROSTATIC SEPARATOR YIELDED 80% OF THE LOT WITH LITTLE OR NO MORNINGGLORY, A 2X10 SCREEN YIELDED 80% OF THE LOT WITH NO MORNINGGLORY AND THE VIRRATOR YIELDED 50% OF THE LOT WITH A FEW MORNINGGLORY.
				IPOMEA		MORNINGGLORY		SCREEN	2X10 FINE 3/4" SANDPAPER	GOOD	100 100		
				IPOMEA IPOMEA IPOMEA		MORNINGGLORY MORNINGGLORY MORNINGGLORY		VIBRATORY DRAPER PNEUMATIC	DECK SANDPAPER	FAIR POOR POOR			
				IPOMEA IPOMEA		MORNINGGLORY MORNINGGLORY	 	VELVET ROLL SPIRAL		POOR			
510	ASPARAGUS	OFFICINALIS	ASPARAGUS	IPOMEA		MORNINGGLORY	REMOVE MORNINGGLORY	SCREEN	SEQ.7/64X3/4 SLOTTED HOLE	GOOD			BEST RESULTS WERE OBTAINED WITH SCREENS AND VIBRATOR SEPARATOR. TWO PASSES WERE MADE ON THE VIBRATOR AND THE REJECT FRACTION WAS RERUN.
				IPOMEA		MORNINGGLORY			SEQ.FINE SANDPAPER		100 100		

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR	FP NOTES	CONCLUSION
								DECK=SANDBLASTED AL., SIDESLOPE=4, BACKSLOPE=6, FEED=6,					THE VIBRATOR YIELDED HIGHEST SELECTIVITY WHILE THE SCREEN AND SPIRAL YIELDED HIGHER CLEANING RATE.
762 ASPARAGUS	OFFICINALIS	ASPARAGUS	IPOMEA		MORNING GLORY	REMOVE MORNING GLORY	VIBRATORY	VIBRATOR=22	GOOD	98	93	100	THE COLOR SORTER LOST THE LEAST CROP.
			IPOMEA		MODNING GLODY		SCREEN	7/64X3/4 SLOTTED SCREEN	GOOD	98	86	100	
			IPOMEA		MORNING GLORY MORNING GLORY		ELECTROSTATIC		GOOD	98			
			IPOMEA		MORNING GLORY		SPIRAL		POOR	98	92	99	
			IPOMEA		MORNING GLORY		COLOR SORTER		FAIR	98	63	99	THE CONTROL OF THE CO
						DETERMINE SCREEN							THESE SCREENS WERE DETERMINED BY TESTS OF AN UNKNOWN VARIETY OF ASPARAGUS. LOSSES FOR EACH PAIR OF
1015 ASPARAGUS	OFFICINALIS	ASPARAGUS	UNKNOWN			HOLE SIZES FOR CLEANING	SCREEN	#9 TOP #7 BOTTOM					SCREENS WAS LESS THAN 5%. ACTUAL RESULTS WILL VARY.
			UNKNOWN				SCREEN	2X10 TOP 2X12 BOTTOM					
								6/64X3/4 TOP 4-					
1059 ASTER	LAEVIS	SMOOTH ASTER	UNKNOWN				SCREEN	7/8/64 BOTTOM					
1035 ASTER	DAEVIO	NEW ENGLAND											
1058 ASTER	NOVAE-ANGLIAE												
		STIFF WHITE											
	PTARMACOIDES	ASTER ACCEPT											
1061 ASTER	PUNICEUS	SWAMP ASTER						VERY FINE SANDPAPER					ON THE VIBRATOR PIGWEED ROLLED
135 ASTER		ASTER	AMARANTHUS		PIGWEED	REMOVE PIGWEED	VIBRATORY	DECK					DOWNHILL.
													PROCESSED WITH SUBMITTER PRESENT. NO
138 ASTER		ASTER				CLEAN SEED.			1		_		RECORD.
													THE FRICTION SEPARATOR, ELECTROSTATIC
													SEPARATOR AND INDENT DISK DID NOT PERFORM WELL ON THE MOIST SAMPLE.
						REMOVE INERT						THE MIXTURE HAD TO BE DRIED	THE SAMPLE WAS DRIED AND SCREENS WERE
764 ATRIPLEX	CORTO	SALTBRUSH	INERT		INERT	MATERIAL: STICKS	SCREEN	SEQ. #6 ROUND HOLE				BEFORE THE CLEANING WAS DONE.	USED WHICH WORKED QUITE WELL.
								SEQ. 3X14 SLOTTED					
			INERT		INERT		SCREEN	HOLE	GOOD			TOW ATD URLOCIMY IN INTERIOR	
												LOW AIR VELOCITY IN INITIAL CLEANING LEFT QUACKGRASS IN THE LOT. LOT CAN BE RECLEANED USING HIGHER AIR VELOCITY TO	
1180 AVENA	SATIVA	OATS	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	PNEUMATIC	SDB	GOOD	l .	100	REMOVE MOST OF THE QUACKGRASS.	
1180 AVENA	SATIVA	UAIS	AGROPIRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	PNEUMATIC	SDB	GOOD		100	QUACKGRASS.	BEST RESULTS WITH THE VELVET ROLLS
													WHICH INCREASED PURITY FROM 80% TO
													96%, DECREASED WILD OAT CONTENT FROM
								100 RPM, 8 DEG					13% TO 1% AND SALVAGED 70% OF THE
126 AVENA	SATIVA	OATS	AVENA	FATUA	WILD OATS	REMOVE WILD OATS	VELVET ROLL	INCLINE	GOOD	80	92	96	LOT.
			AVENA AVENA	FATUA FATUA	WILD OATS WILD OATS		PNEUMATIC SCREENS	VARIOUS SCREENS	POOR		-		
			AVENA	FATUA	WILD OATS		SPIRAL	VARIOUS SCREENS	POOR				
			AVENA	FATUA	WILD OATS		ELECTROSTATIC		POOR				
			AVENA	FATUA	WILD OATS		VIBRATORY		POOR				
			AVENA	FATUA	WILD OATS		DRAPER		POOR				
						REMOVE WILD OATS. SAMPLE MADE UP FROM PURE LOTS SUBMITTED: 90% OATS, 10% WILD							THE AIR-SCREEN MACHINE YIELDED GOOD RESULTS. A 6/64X3/4 SCREEN REMOVED ALL WILD OATS WITH 47% CROP LOSS AND A 5-1/2X3/4 SCREEN W/DAMS REMOVED 98%
142 AVENA	SATIVA	OATS	AVENA	FATUA	WILD OATS	OATS.	AIR-SCREEN	6/64X3/4	GOOD	90	100	100	OF THE WILD OATS WITH 7% CROP LOSS.
			AVENA	FATUA	WILD OATS		AIR-SCREEN	5-1/2X3/4 W/2 TRIANGULAR DAMS	GOOD	90	98	100	
			AVENA	FATUA	WILD OATS		VIBRATORY	TRIANGULAR DAMS	POOR	30	20	100	
			AVENA	FATUA	WILD OATS		VELVET ROLL		POOR				
			AVENA	FATUA	WILD OATS		ELECTROSTATIC		POOR				
								anaoven nogum				SWEET PEAS GROWN ON A TALL	
1233 AVENA	SATIVA	OAT	AVENA	SATIVA	OATS	SEPARATE SWEET PEA CROP FROM OAT CROP	INDENT CYLINDER	GROOVED POCKET TRIEUR				OAT VARIETY AND HARVESTED TOGETHER.	
2233 11721111	DITTYTT	0.112	117 22411	OIII I VII	0.115	CROT TROTT GRIT CROT	INDENT	TREBUR		100		9/L	
1234 AVENA	SATIVA	OAT	AVENA	FATUA	WILD OAT	REMOVE WILD OAT	CYLINDER	GROOVED POCKET TRIUR	FAIR		90	В	
		1				REMOVE BARLEY,							
						CHESS, DARNEL, WILD		CPO #0 OVER 1/12					ADOME CHOILBINGS ALBERT DECKERS
38 AVENA		GRAY OATS	BROMUS		CHESS	BUTTERCUP AND HAIRY VETCH.	SCREENS	SEQ.#8 OVER 1/13, "BOUNCED"	GOOD				ABOVE SEQUENCE YIELDS BEST RESULTS. RERUNNING CLEAN FRACTION HELPS SOME.
30 III 2IIA		LIGHT ONLD	LOLIUM		DARNEL		DRAPER	SEQ.WITH PLASTIC	GOOD		-	<u> </u>	THE CALL TRACTION HERE'S SOME.
						REMOVE UNDEVELOPED SEEDS (SMALL,							THE STACK OF HANDSCREENS MADE A GOOD SEPARATION WITH 85-90% OF THE LOT HELD ON THE 60X60 SCREEN WITH VERY FEW UNDEVELOPED SEEDS. THE BLOWER DROPPED ABOUT 95% OF THE LOT, BUT THE
165 BEGONIA		BEGONIA	BEGONIA		BEGONIA	MISSHAPEN AND SHRIVELLED).	SCREENS	40X40/45X45/50X50/60 X60 STACKED	GOOD				SEPARATION WAS LESS DISTINCT THAN
100 BEGUNIA			BEGONIA BEGONIA		BEGONIA	ORKIVELLED).	SCREENS PNEUMATIC	AUU STACKED	FAIR		-	_	WITH THE SCREENS.
						IMPROVE GERMINATION			1				
						OF BEET SEED USING		KAMAS WESTRUP -					
1169 BETA	VULGARIS	SUGARBEET	BETA	VULGARIS	SUGARBEET	GRAVITY TABLE	GRAVITY	CLOTH DECK	1				
		DETROIT DARK				REMOVE MALLOW, MORNINGGLORY, AND		SEQ.#16 ROUND HOLE					BEST RESULTS OBTAINED WITH #16 SCREEN TO REMOVE TRASH, A 6/64X3/4 SCREEN TO DROP MALLOW AND MORNINGGLORY AND A SIZE MM INDENT DISC TO REJECT MORE STICKS. A #20 INDENT CYLINDER SHOULD MAKE ABOUT THE SAME SEPARATION AS THE
348 BETA	VULGARIS	RED BEET	INERT		INERT	INERT MATERIAL.	SCREEN	SCREEN	GOOD				DISC.
	I		IPOMEA	1	MORNINGGLORY		SCREEN	SEQ.6/64X3/4 SLOT	GOOD				
			MALVA		MALLOW		SCREEN	SEQ.6/64X3/4 SLOT	GOOD		- 1		

NO	CROP GENUS	CROP SPECIES	CROP COMMON	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP	CR FP	NOTES	CONCLUSION
									SEQ.MM DISC,FRACT					
				STICKS		STICKS		INDENT DISC	OVER 6/64X3/4	GOOD				SCREENING ON 8 1/2 ROUND-HOLE SCREEN
									SEQ. 8 1/2 ROUND-					FOLLOWED BY BLOWING YIELDED OVER 99% OF THE ORIGINAL LOT FREE OF
555	BETA	VULGARIS	BEET	IPOMEA IPOMEA		MORNINGGLORY MORNINGGLORY	REMOVE MORNINGGLORY	SCREEN PNEUMATIC	HOLE SEQ.	GOOD		100 100		MORNINGGLORY SEED.
				IPOMEA		MORNINGGLORY		ELECTROSTATIC	DDQ.	POOR		100		
				IPOMEA		MORNINGGLORY		VIBRATORY	01 DDD DD DD D	POOR	_		a contract to the contract to	
766	BETA	VULGARIS	BEET	RAPHANUS	SATIVUS	RADISH	REMOVE RADISH (IN THE POD)	FRICTION	CARPET BELT, SCOTCHBRITE BAR 3 DEGREES FROM VERT.	GOOD		68	A SINGLE PASS WAS PERFORMED THEN THE REJECT FRACTION WAS RUN THROUGH TWICE.	A REASONABLY GOOD SEPARATION CAN BE MADE WITH A SELECTIVITY OF ABOUT .6.
														SUGAR BEET WAS LIFTED FROM THE WHEAT BY BLOWING. A 100% FINAL PURITY WAS ACHIEVED BY SCREENING OUT SHRIVELED WHEAT FIRST, WHICH WOULD OTHERWISE
989	BETA	VULGARIS	SUGAR BEET	TRITICUM		WHEAT	REMOVE WHEAT.	SCREEN	SEQ.					HAVE BEEN LIFTED WITH THE BEET.
				TRITICUM		WHEAT		PNEUMATIC	SEQ.1100FPM	GOOD		100 100	TESTS CARRIED OUT WITH 1-1/2"	
							PERFORM CONVEYING TRIALS AND CHECK FOR						PIPELING (30' VERT, 26'HOR, 4 ELBOWS) USING COMMERCIAL BLOW-	THE BEET SEEDS WERE TRANSPORTED READILY IN THE LEAN OR DENSE PHASES
111	BETA	VULGARIS	BEET				SEED DAMAGE. POLISH SEED ON BELT						THROUGH A	AT LOW VELOCITY.
							THRESHER FOR PRECISION PLANTING AND BETTER FLOWING CHARACTERISTICS. POLISHING INVOLVES KNOCKING OFF ROUGH							TRIALS ON THE THRESHER LOOKED
553	BETA	VULGARIS	SUGAR BEET				EDGES ON THE SEED.	BELT THRESHER		GOOD				EXCELLENT. FOLLOWING A LIMITED LITERATURE SEARCH, A SUMMARY SHEET CONTAINING
678	BETA	VULGARIS	BEET				DETERMINE SURFACE AREA OF SEEDS							VARIOUS APPROACHES IN DETERMINING SURFACE AREA FOR OBJECTS OF DIFFERENT SIZES WAS GIVEN TO THE SUBMITTERS.
070	DETA	VOLGARID	DEET				AREA OF SEEDS							BECAUSE OF SIMILARITIES IN SIZE AND
807	BETA	VULGARIS SACCHARIFERA	SUGAR BEET	BETA	VULGARIS	BEET	SEPARATE MULTI-GERM SEED FROM MONO-GERM SEED	INDENT CYLINDER		POOR				SHAPE, NO SEPARATION METHOD WAS EFFECTIVE. IN THE FUTURE THE VISION SYSTEM MAY BE THE BEST TECHNIQUE.
							IMPROVE GERMINATION							
1011	BETA	VULGARIS SACCHARIFERA	SUGAR BEET	BETA	VULGARIS	LOW GERM SUGARBEET	OF THREE LOTS OF SUGAR BEET USING GRAVITY TABLE	VIBRATORY		POOR				
														AFTER SCREENING AND PNEUMATIC
854	BETA	VULGARIS SACCHARIFERA	SUGAR BEET	INERT		INERT	DETERMINE PERCENTAGE OF INERT.	SCREEN	SEQ. #16 ROUND HOLE					SEPARATION, THE AMOUNT OF INERT WAS FOUND TO BE ABOUT 25% BY WEIGHT.
				INERT		INERT		PNEUMATIC	SEQ. 6X6					
841	BETA	VULGARIS SACCHARIFERA	SUGAR BEET	TRITICUM	AESTIVUM	WHEAT	REMOVE WHEAT AND BEDSTRAW.	GRAVITY	SEQ.	GOOD				A ROUND HOLE SCREEN IN AREA OF 8/64 TO 10/64 WILL EFFECTIVELY REMOVE MOST OF THE BEDSTRAW AND SOME OF THE WHEAT. A GRAVITY TABLE WILL REMOVE WHEAT AND BEDSTRAW FROM THE SUGAR BEET SEED.
				GALIUM		BEDSTRAW		SCREEN	SEQ.RD HOLE: 8/64 TO 10/64	GOOD				
790	вета	VULGARIS SACCHARIFERA	SUGAR BEET		SATIVA	COMMON VETCH	REMOVE COMMON VETCH	SCREEN	10 10/64	GOOD				THE FRICTION, PNEUMATIC, SPIRAL, DRAPER AND BOUNCE PLATE SEPARATORS IMPROVED FURTLY IN VARYING BEGREES. THE FRICTION SEPARATOR WAS THE MOST EFFECTIVE. THE LARGE FLIGHT OF THE SPIRALAISO GAVE GOOD RESULTS.
639	BETA	VULGARIS SACCHARIFERA	SUGAR BEET				POLISH BEET SEED	BELT THRESHER					POLISHING IS ADD	THRESHED LOTS WERE RETURNED TO SUBMITTER FOR EVALUATION. THE BRUSH DEBEARDER GAVE BEST RESULTS
1195	BOTHRIOCHLOA	INSCULPTA	BLUESTEM	BOTHRIOCHLOA	INSCULPTA	UNTHRESHED BLUESTEM	THRESH	SCARIFIER	LAH	GOOD			THESE SAMPLES WERE RE	FOR THRESHING BOTRIOCHLOA SEED.
				BOTHRIOCHLOA	TNSCIII DTA	UNTHRESHED BLUESTEM		SCARIFIER	FILAMENT THRESHER	FAIR				
			SIDE-OATS	Ботиктосивох	INSCORPTA	ONTINESTIED BEGGTEN	REMOVE BLANK SEED,	JCARTF15K	FIDAMENT THOUSEN	PAIR				THE SEED IS VERY SENSITIVE TO GROATING AND ANY ACTION SEVERE ENOUGH TO DEAWN IT WOULD DAMAGE IT. THE PNEUMATIC SEPARATOR IS VERY GOOD AT REDUCING THE BLANK SEED FROM THE
35	BOUTELOUA	CURTIPENDULA	GRAMA	AWNS	<u></u>	AWNS	CHAFF AND STEMS.	DEBEARDER	SEQ. 75RPM, 45 MIN	POOR	_			GRAMA.
								PNEUMATIC	SEQ.	GOOD				
				BLANK SEED		BLANK SEED	DEAWN BLACK GRAMA	ELECTROSTATIC	SEQ.	POOR	-			
			BLACK GRAMA				WITH LABORATORY DEAWNER (JAMES) AND		SEQ. VARIOUS					
30	BOUTELOUA	ERIOPODA	BLACK GRAMA	AWNS		AWNS CHAFF	CLEAN.	DEBEARDER SCREEN	SPEEDS/TIMES SEQ. 4X26	POOR GOOD	-			THE LABO
				CHAFF		CHAFF		PNEUMATIC	SEQ.	GOOD		20		
									SEQ. BLOW TORCH		\top			
-				AWNS		AWNS INERT	+	OTHER SCREEN	FLAME SEQ.6X50	GOOD	+			
			DI III G				DDD GLDVerere er			1232			THREE VARITIES OF THIS	USE LAH SCARIFIER AIR SCREEN, GRAVITY AND AIR COLUMN IN SEQUENCE TO REMOVE THE CARYOPSIS AND CLEAN BLUE GRAMMA GRASS. REFUNNING THE SCREENINGS AND
1108	BOUTELOUA	GRACILIS	BLUE GRAMMA (3VAR)	BOUTELOUA	GRACILIS	BLUE GRAMMA IN THE HULL	FREE CARYOPSIS OF LEMMA AND PALEA	SCARIFIER	SEQ LAH W/#14SQ OR #20R	FAIR			MATERIAL WERE SENT. OBJECT OF THE WORK WAS TO REMOV	SCALPINGS WILL INCREASE THE AMOUNT OF SEED SALVAGED.
1100	LUCIDION		, 5,1111,			BLUE GRAMMA IN THE	E		SEQ .043X3/4 SH TOP		-		THE HOLD HAD TO REPROVE	
				BOUTELOUA	GRACILIS	HULL		AIR-SCREEN	0.027 RH BOTTOM	FAIR				

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	CR FP	NOTES	CONCLUSION
				BOUTELOUA	GRACILIS	BLUE GRAMMA IN THE HULL		GRAVITY	SEQ USED TO CONCENTRATE GROATS	FAIR			
									SEQ USED ON SOME				
				BOUTELOUA	GRACILIS	BLUE GRAMMA IN THE HULL		PNEUMATIC	FRACTIONS TO CONCENTRATE GROATS	FAIR			
				BOUTEBOOK	GICACILIS	HOBB		PNEOMATIC	CONCENTRATE GROATS	PAIR		THIS LOT HAD BEEN SCREENED	
												THREE TIMES, RUN ON GRAVITY	
1156	BOUTELOUA		BLUE GRAMMA GRASS	DIGITARIA	SANGUINALIS	LARGE CRABGRASS	REMOVE LARGE CRABGRASS			7		AND INDENTED BUT STILL CONTAINED 26% CRABGRASS SEED.	
1100	5001550011		GIGIGO	DIGITIME III	DIMOOTHILLID	DINOD CIGIDORGIO	Ciaibolaibo					CONTINUES DOV CIGIDORIDO SEED.	THE FRICTION SEPARATOR GAVE THE BEST
			BIRD RAPE						8 DEG BAR FORWARD		82	MAGNETIC SEPARATOR WAS	RESULTS, HOWEVER, THE VELVET ROLL
094	BRASSICA	CAMPESTRIS	BIRD RAPE	GALIUM	APARINE	BEDSTRAW	REMOVE BEDSTRAW	FRICTION	ANGLE 12 DEG BAR FORWARD	GOOD	62	INEFFECTIVE.	ALSO SHOWS PROMISE.
				GALIUM	APARINE	BEDSTRAW		FRICTION	ANGLE	GOOD	100 100)	
				GALIUM	APARINE	BEDSTRAW		VELVET ROLL		FAIR	80		THE PNEUMATIC SEPARATOR DID FAIRLY
282	BRASSICA	HIRTA	YELLOW MUSTARD	SAPONARIA	VACCARIA	COWCOCKLE	REMOVE COWCOCKLE.	PNEUMATIC		FAIR	100 100	BECAUSE OF SEED DIMENSION OVERLAP, A LENGTH SEPARATION IS NOT FEASIBLE.	MELL, BUT ONLY RECOVERED 35% OF THE MUSTARD FREE OF COCKLE. THE COLOR SORTER APPARENTLY MADE A SEPARATION, BUT NO EVALUATION WAS STATED IN ORIGINAL REPORT OTHER THAN IT CAN ONLY HANDLE 35 TO 45 LBS/HR.
				SAPONARIA	VACCARIA	COWCOCKLE		ELECTROSTATIC		POOR	100 100		
				SAPONARIA	VACCARIA VACCARIA	COWCOCKLE		ELECTROSTATIC		POOR	88		
			BROADLEAF	SAPONARIA	VACCARIA	COWCOCKLE	REMOVE CUTLEAF	COLOR SORTER					NEITHER OF THE MACHINES TRIED WAS
1067	BRASSICA	JUNCEA	MUSTARD	GERANIUM	DISSECTUM	CUTLEAF GERANIUM	GERANIUM	VELVET ROLL		POOR			SUCCESSFUL IN THIS SEPARATION.
1114	DDAGGTGA	JUNCEA	MUSTARD	GERANIUM INERT	DISSECTUM	CUTLEAF GERANIUM	REMOVE SOIL FROM	FRICTION	FRICTION ROLL	POOR		THIS WAS A SMALL LOT OF MUSTARD SEED FOR SHIPMENT TO JAPAN REQUIRING 0.03% SOIL OR LESS.	
	BRASSICA BRASSICA	NAPUS	MUSTARD	LIMNANTHES	ALBA	MEADOWFOAM	REMOVE MEADOWFOAM FROM RAPE SEED	GRAVITY				LESS. THIS WAS A REQUEST FOR INFORMATION ON METHODS TO REMOVE MEADOWFOAM FROM RAPE SEED. TEXTURE SEPARATORS WERE RECOMMENDED. NO SAMPLE WAS RECEIVED.	
							REMOVE OATS, BARLEY, WEED SEED, STRAW AND INERT MATERIAL FROM		SEQ.8/64X3/4 SLOT				THIS PROBLEM SAMPLE IS THE OTHER HALF OF #0716, WHICH NOW DEALS WITH THE PEAS ONLY. THE ABOVE SEQUENCE YIELDS
1073	BRASSICA	NAPUS	RAPE	MISC		MISC	PEAS AND RAPE SEED.	SCREENS	OVER #10 SEQ.#5 1/2 RD OVER				A 99% PURE RAPE SEED LOT.
				MISC		MISC		SCREENS	1/22X1/2		98		
				MISC		MISC		PNEUMATIC	SEQ.770FPM		99)	MUE VIDDAMOD DNEUMAMIC CEDADAMOD AND
684	BRASSICA	NAPUS	TORCH RAPESEED	MISCELLANEOU S			REMOVE INERT MATERIAL, OTHER SEEDS AND SCLEROTINIA.	VIBRATORY		GOOD			THE VIBRATOR, PNEUMATIC SEPARATOR AND AIR-SCREEN YIELDED VERY GOOD RESULTS, BUT THE AIR-SCREEN IS PROBABLY THE BEST FOR THE SUBMITTER BECAUSE OF ITS HIGHER CAPACITY.
				MISCELLANEOU									
				MISCELLANEOU				PNEUMATIC	1/12 RD TOP, 1/17 RD	GOOD			
				S				AIR-SCREEN	BOTTOM	GOOD	100		
		NAPUS NAPO-					SEPARATE LOT INTO						A 1/13 RH SCREEN HOLDS ABOUT 3%, A 1/15 HOLDS ABOUT 71% AND A 1/18 HOLDS
	BRASSICA BRASSICA	BRASSICA OLERACEA	RUTABAGA	BRASSICA	OLERACEA	LOW GERM	SIZED FRACTIONS. REMOVE LOW GERM SEED					THIS SAMPLE HEATED IN THE PILE DUE TO HIGH MOISTURE CONTENT. CURRENT GERM IS APPROX. 50%.	ABOUT 24%, DROPPING 2%. POSSIBLE SORTING ON COLOR SORTER WITH UV HEAD. THE DIFFERENCE IS VISIBLE UNDER THE MINERAL LIGHT (UV) AFTER SOAKING AND DRYING.
1101	BRASSICA	OBERACEA	CABBAGE	BRADDICA	OBERACEA	HOW GERM	REMOVE WILD RADISH.					APPROX. 50°.	THE COLOR SORTER APPEARS TO BE THE ONLY MACHINE CAPABLE OFFSEPARATING
000	BRASSICA	OLERACEA	WHITE ALYSSUM		RAPHANISTRUM	WILD RADISH	INITIAL PURITY 5-6% RADISH.	INDENT CYLINDER					RADISH FROM KALE BUT IS RELATIVELY SLOW AND EXPENSIVE.
208	DIMODICA	ODBICACEA	THE SOUTH		TOTAL CITAL STRUCK	WIND KADION	MADION.	COLOR SORTER					DIGHT IND EXPENSIVE.
		OLERACEA						SPIRAL					MANY MACHINES WERE TRIED, BUT ONLY THE MAGNETIC SEPARATOR WAS SUCCESSFUL, SALVAGING 94% OF THE MATERIAL AS GOOD SEED WITH A SMALL AMOUNT OF CRAMESBILL. A SECOND RUN ON THE MAGNETIC SEPARATOR WOULD PROBABLY YIELD AN EVEN CLEANER CROP
497	BRASSICA	ACEPHALA	KALE	GERANIUM		CRANESBILL	REMOVE CRANESBILL.	MAGNETIC		GOOD		-	SAMPLE.
635	BRASSICA	OLERACEA ACEPHALA	COLLARD	GERANIUM		CRANESBILL	REMOVE CRANESBILL	FRICTION			90	AIR AND VIBRATOR SEPARATORS WERE INEFFECTIVE.	A 1/15 ROUND-HOLE SCREEN YIELDED THE BEST RESULT WITH 6.5% LOSS AND 100% FINAL PURITY.
				GERANIUM		CRANESBILL		VELVET ROLL	1/15 pomm		60		
-				GERANIUM		CRANESBILL		SCREEN	1/15 ROUND-HOLE		100 100		SCREENING APPEARS TO BE THE BEST
798	BRASSICA	OLERACEA ACEPHALA	COLLARDS	GERANIUM	DISSECTUM	CUTLEAF CRANESBILL	REMOVE CUTLEAF CRANESBILL BY MAGNETIC SEPARATION.	MAGNETIC	50G SEED, 1G FE,.5G WATER	POOR			METHOD OF REMOVING CUTLEAF CRANSSBILL FROM CAROLINA COLLARDS. A 1/14 ROUND HOLE SCREEN RESULTS IN 10% CROP LOSS WITH ESSENTIALLY COMPLETE REMOVAL OF CRANESBILL.
				GERANIUM	DISSECTUM	CUTLEAF CRANESBILL		MAGNETIC	1% SOLN WETTING AGENT, VERY FINE POWDER	POOR			
					DISSECTUM	CUTLEAF CRANESBILL			FERROMAGNETIC LIQUID				

NO	CROP GENUS	CROP SPECIES	CROP COMMON	CONTAMINANT	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUAL:	I	CR FP	NOTES	CONCLUSION
							REMOVE DIRT CLODS						SCREENS, FRICTION, VELVET ROLLS, AND INDENT CYLINDER WERE INEFFECTIVE.	GOOD RESULTS WERE OBTAINED WITH THE VIBRATOR SEPARATOR. ALSO, HAND- RUBBING AGAINST A SPONGE RUBBER
605	BRASSICA	OLERACEA BOTRYTIS	BROCCOLI	DIRT		DIRT	FROM BROCCOLI BREEDER SEED SAMPLE.	VIBRATORY	180 GRIT DECK	GOOD			PRACTICALLY NO CROP LOSS WAS TOLERABLE.	SURFACE TO CRUSH THE CLODS YIELDED GOOD RESULTS.
	2101001011	BOTHITTE	DROCCOLI				DREEDER COLD CITIE DE		HAND-RUB ON SPONGE				TOBATIBBB.	COOD REGORIES.
				DIRT		DIRT		OTHER	RUBBER	GOOD				THE 1/22X1/2 SLOT DROPPED 1.5% OF THE
370	BRASSICA	OLERACEA CAPITATA	CABBAGE	BRASSICA	OLERACEA CAPITATA	SHRIVELED CABBAGE	REMOVE INERT MATERIAL AND SHRIVELED AND LIGHT CABBAGE SEED.	SCREEN	SEQ.1/22X1/2 SLOTTED HOLE	D- GOOD				SAMPLE WHICH WAS SHRIVELED AND SMALL SEED WITH SOME INERT MATERIAL. THE PNEUMATIC SEPARATOR REMOVED 1.4% AS INERT MATERIAL AND LIGHT SEED.
				INERT		INERT		PNEUMATIC	SEQ.	GOOD				CORRENO THOU THER DRADER AND MAYOR
709	BRASSICA	OLERACEA CAPITATA	CABBAGE	BRASSICA	RAPA	WILD MUSTARD	REMOVE WILD MUSTARD AND MORNINGGLORY	PNEUMATIC		POOR		73	MAGNETIC, FRICTION, VIBRATOR, GRAVITY AND SPIRAL SHOWED LIMITED OR NO TENDENCY TO MAKE THIS SEPARATION.	SCREENS, INCLINED DRAPER AND, MAYBE, THE INDENT CYLINDER HAVE THE CAPABILITY OF REDUCING THE MUSTARD CONTAMINATION TO BELOW THE REQUIRED 300 PER POUND.
				IPOMEA		MORNINGGLORY		DRAPER	12 DEG INCLINE, 40 FPM	GOOD		92		
969	BRASSICA	OLERACEA CAPITATA	CABBAGE	BRASSICA	OLERACEA CAPITATA	CABBAGE	REMOVE SHRIVELED SEED FROM CABBAGE.	INDENT CYLINDER	#4 CYLINDER	GOOD			THE VIBRATOR FOLLOWED BY THE BLOWER YIELDED A 99% PURE FRACTION WITH LESS THAN 10% LOSS OF GOOD SEED.	
								PNEUMATIC	1/18X3/4 OVER 1/16 RD HOLE	GOOD		98		
				DDACCTCA	OLERACEA	CARDACE								
670	BRASSICA	OLERACEA CAPITATA	CABBAGE	BRASSICA GALIUM	CAPITATA	CABBAGE BEDSTRAW	REMOVE BEDSTRAW	FRICTION VELVET ROLL	WEATHERSTRIP BAR, VINYL BELT	GOOD FAIR		77	ELECTROSTATIC, PNEUMATIC, SCREEN AND VIBRATOR SEPARATOR WERE INEFFECTIVE.	THE FRICTION SEPARATOR YIELDED GOOD RESULTS WITH 97.5% OF THE CABBAGE SAVED. FOUR PASSES WERE MADE, THEN THE RESULTING ROUGH FRACTION WAS RUN FOUR MORE TIMES.
		OLERACEA											THIS WAS A SMALL LOT OF 40 LBS WORTH \$20/LB FOR SHIPMENT TO JAPAN. INITIAL LEVEL WAS 0.19% SOIL. REQUIRED LEVEL WAS 0.03% SOIL. GRAVITY	USE GRAVITY TABLE AND 1/13 ROUND HOLE SCREEN TO SIGNIFICANTLY REDUCE SOIL
1112	BRASSICA	CAPITATA	CABBAGE	GALIUM		BEDSTRAW	REMOVE SOIL	GRAVITY SCREEN	KAMAS SMALL DECK 1/13 ROUND HOLE	GOOD		(APPEARED TO REMOVE	CONTENT FROM CABBAGE.
									7				THE INDENT WAS TRIED WITH UNSATISFACTORY RESULTS. IF MORE CLOVER CAN BE TOLERATED, THE VELVET ROLLS PRODUCED A	THE ABOVE SPIRAL, VIBRATOR AND SPIRAL/SCREEN OPERATIONS DID THE
372	BRASSICA	OLERACEA CAPITATA	CABBAGE	INERT	INCARNATUM	SOIL	REMOVE CRIMSON CLOVER.	VIBRATORY		GOOD			YIELD OF 96% WITH 78 CLOVER IN 50 GRAMS.	BEST, YIELDING 82 TO 89% WITH ABOUT 30 CLOVER SEEDS IN 50 GRAMS.
3,2	Did 100 T Ci 1	Cite 2 Title	CHEBRIOE	TRIFOLIUM	INCARNATUM	CRIMSON CLOVER	CEOVER	SPIRAL		GOOD			IN 30 GIGID.	50 CLOVER CHESC IN 50 GREEN.
				TRIFOLIUM TRIFOLIUM	INCARNATUM INCARNATUM	CRIMSON CLOVER CRIMSON CLOVER		SCREEN SPIRAL	SEQ.4X16 SEQ.	GOOD				
106	DDAGGTGA	OLERACEA	GIRDIGE				REMOVE TINY VETCH SEED BY GRAVITY	GRAVITY	oug.					MANY MACHINES WERE TRIED, BUT ONLY THE COLOR SORTER YIELDED GOOD RESULTS. 91% OF THE MATERIAL WAS RECOVERED AS ALMOST PURE CABBAGE
496	BRASSICA	CAPITATA	CABBAGE	VICIA VICIA	HIRSUTA HIRSUTA	TINY VETCH TINY VETCH	TABLE.		2 PASSES	GOOD				SEED.
1201	BRASSICA	OLERACEA GEMIFERA	CHINESE KALE		SATIVUS	RADISH	REMOVE RADISH	INDENT CYLINDER	SEQ 2.75 MM POCKET SEQ #70 OR #92 WITH	FAIR		90	THIS MATERIAL CONTAINED BOTH WILD AND DOMESTIC RADISH AT APPROX 9/LB AFTE	
				RAPHANUS	SATIVUS	RADISH		COLOR SORTER	LIGHT SORT					
755	BRASSICA	OLERACEA GONGYLODES	KOHLRABI	GERANIUM	DISSECTUM	CUTLEAF CRANESBILL	REMOVE CUTLEAF CRANESBILL AND BIRD RAPE	SCREEN	SEQ.1/16 ROUND HOLE SEQ.1/18X3/4 OBLONG					MOST OF THE CRAMESBILL PASSED THROUGH THE SCREENS, BUT A POSITIVE IDENTIFICATION COULD NOT BE MADE BETWEEN THE KOHLRABI AND BIRD RAPE SEED IN THE REMAINING SAMPLE.
				BRASSICA	RAPA	BIRD RAPE		SCREEN INDENT CYLINDER	HOLE SEQ. #6 INDENT CYLINDER					
1104	BRASSICA	OLERACEA GONGYLODES	KOHLRABI	GERANIUM	DISSECTUM	CUTLEAF GERANIUM	REMOVE CUTLEAF GERANIUM	VELVET ROLL	SEQ. MEDIUM SPEED SLOPE 12 SEQ. 1/16 RH HAND	FAIR			WAS 1.8%. 0.50% OR LESS WAS NEEDED TO MAKE	USE 1/15 ROUND HOLE SCREEN FOLLOWED BY VELVET ROLL TO REMOVE A PORTION OF THE CUTLEAF GERANIUM
				GERANIUM GERANIUM	DISSECTUM DISSECTUM	CUTLEAF GERANIUM CUTLEAF GERANIUM		SCREEN PNEUMATIC	SCREEN UNTIL 10% LIFTED	FAIR		49 99		
				GERANIUM	DISSECTUM	CUTLEAF GERANIUM		VIBRATORY	SANDPAPER DECK	POOR				
				GERANIUM GERANIUM GERANIUM	DISSECTUM DISSECTUM	CUTLEAF GERANIUM CUTLEAF GERANIUM CUTLEAF GERANIUM		COLOR SORTER SCREEN	1/15 RH SPECTRAL MEASUREMENTS ONLY 1/14 RH	POOR FAIR		45 99		
738	BRASSICA	OLERACEA GONGYLODES	KOHLRABI	VICIA		VETCH	REMOVE VETCH FROM KOHLRABI SEED	GRAVITY	AIR=3, BACKSLOPE=1, SIDESLOPE=6.5, SPEED=575, DECK=PERF. CU.	FAIR			ONE PASS ON GRAVITY TABLE DID NOT BRING PURITY TO ACCEPTABLE RANGE. A SECOND PASS MIGHT ALTHOUGH THIS WAS NOT TRIED.	VETCH MAY BE PARTIALLY REMOVED FROM KOHLRABI ON THE GRAVITY TABLE WITH TWO OR MORE PASSES IMPROVING THE CLEANING JOB.
	BRASSICA		CHINESE	BRASSICA	RAPA	WILD MUSTARD	REMOVE WILD MUSTARD						CROP IS NETTED AND ROUGHER THAN THE CONTAMINANT. BEST GUESS WAS WILD MUSTARD FOR THE CONTAMINANT, BUT IT MAY BE SOME OTHER SPECIES.	

March Marc	NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY IP	CR FP	NOTES	CONCLUSION
Column	1200	BRASSICA	PEKINENSIS		RAPHANUS	SATIVUS	DICON RADISH		SPIRAL	LARGE SEED FLIGHT	GOOD			
March Marc														
The column The														
March Marc													SO SEPARATION OF DEAD SEED	
March Marc	730	BRASSICA	RAPA	BIRD RAPE				GERMINATION SEED		VINYL BAR			WAS DESIRED.	SAMPLES FOR GERMINATION TESTS.
MARCHES MARC					DIADDICA	KAFA	DEAD BIRD RAFE		DF IIAL	6"X6" ESM WITH ROUND	_			
Control Cont					BRASSICA	RAPA	DEAD BIRD RAPE		PNEUMATIC					
11 March 1										16.5KV, HOR=6-				
Column C										3/4, VERT=9-1/2, ROT=1	1			
Column	113	BRASSICA	RAPA	TURNIP	GERANIUM		CRANESBILL	REMOVE CRANESBILL.	ELECTROSTATIC	1/4,103 DEG		100 100		TURNIP.
Marchane							CDANESBILL							
A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					GERANIUM		CRANESBILL							
Marie Mari														A 1/14 SCREEN WILL HOLD ABOUT 4%(THE
March Marc														
STATE STAT														
MARKET M	448	BRASSICA	RAPA	TURNIP				INTO FRACTIONS.						
10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2														
Series S														
March Marc														
10 10 10 10 10 10 10 10														
March Marc														
	311	BRASSICA		RAPESEED	AMARANTHUS		PIGWEED	AND PIGWEED.	SCREEN	6X19 WIRE MESH	GOOD		1	OTHERS.
					QUIENODOD TVI	AT DUM	I AMDOOHADEED		CODERN	CV10 WIDD WOO	COOR			
Part	—				CHENOPODIUM	ALBUM	DICWEED			DAIS WIRE MESH		+		
10 MARTICO ADESTED MARATESI PROVIDED SECOND FORMER STALL STA					CURTINARIA		FIGHER		VIDRATURI		3000			
10 MARTICO ADESTED MARATESI PROVIDED SECOND FORMER STALL STA					CHENOPODIUM	ALBUM	LAMBSQUARTER		VIBRATORY		GOOD			
10 MACRITICA														
10 AMASTON PROPERTY AMANTON PROPERTY SERVICE SERVICE PROPERTY SERVICE SERVICE PROPERTY SERVICE														
1	316	BRASSICA		RAPESEED	AMARANTHUS		PIGWEED	REMOVE PIGWEED.	SPIRAL					
10 10 10 10 10 10 10 10														
PARTICIDAD PAR	317	DDAGGTCA		DADECEED	AMADANTHIIC		DIGWEED	DEMOVE DIGWEED	CDTDAT.					
SAMESICA	317	Didioorcii		IGHT EDDEED	THE HEAT THOSE		1100222	KENOVE TIGHEED:	DI TIGIL					
Deciration														
# 12 SAMPLICA SAMPLE SAMPL														
STATE STAT														
11 SASSICA SADERS SADERS SASSICA SADERS S														
11 BAASICA PADES BAASICA PADES BAASICA PADES P	657	BRASSICA		MUSTARD	BRASSICA	RAPA	WILD MUSTARD	REMOVE WILD MUSTARD	VIBRATORY		FAIR	99	THE CAMBLE WAS CORPORED AND	LOSS OF 46%.
116 SACSICA PACCES SACSICA PATE COLOR SOUTH PACCES								REMOVE SKINNED SEED		UV HEAD DARK BLUE				USE COLOR SORTER WITH UV HEAD TO
PLOSEDA PLOS	1136	BRASSICA		RADISH	BRASSICA		RADISH		COLOR SORTER		GOOD 96	80 99	COLUMN ALSO	
105 BARSICA MOTARO CALIUM SESTIMA SESTIMA SPEAL SUPERIORY COURT SESTIMATION SESTIMA SESTIMA SESTIMA SESTIMATION SESTIMA SESTIMATION SESTIM				FLORIDA										
SAMITY SERVING COLLING COLLI														
SALTON SALTON SECTION SECTIO	1025	BRASSICA		MUSTARD				CUTLEAF GERANIUM	SPIRAL		GOOD	100 100	TO 0.10% OR LESS.	
MANUFACE						DISSECTUM			VIDDATORY	CANDIAC DECK	COOD	100 100		
CALING SHORT SHO					GALLUM		BEDSIRAW		VIBRATURI		GOOD	100 100		
NUSTARD GEARDIN DISSECTION CUTLEAF GERANIUM GREANIUM GREA					GALIUM		BEDSTRAW		MAGNETIC		FAIR	90		
MADE BASSICA SEPARATIONS REMOVE CUTLEAF REMOVE CUTLEAF REMOVE CUTLEAF REMOVE CUTLEAF REMOVE CUTLEAF REMOVE LINET REMOVE INSET REMOVE I														
1052 RRASSICA MISTARD GRANIUM DISSECTUM CULLARY GRANIUM DESCRIUM CHART GRANIUM GRANIUM														
RESIDENT THE PERMIT COULD BE USED TO FROM SCALLARD SECRET USED TO SUBSTREE TO SALVAGE SECRET MAJOR WHITE COCKLE SALVAGE CROP SEED PROM SCREEN SCR. NUSTARD LYCHNIS ALSA WHITE COCKLE SALVAGE CROP SEED PROM SCREEN SCR. NUSTARD LYCHNIS ALSA WHITE COCKLE SALVAGE CROP SEED PROM SCREEN SCR. SCR. SCR. SCR. SCR. SCR. SCR. SCR.	1050	DDAGGTGA		MICHARD	CEDANTUM	DICOROMIN	CUMU BAR CERANTUM							
REMOVE IMEST 767 BRASSICA MISTARD INEST	1052	BRASSICA		MUSTARD	GERANIUM	DISSECTOM	CUILEAF GERANIUM	GERANIUM					OF BRASSICA SEPARATIONS	THE SDIDAL OF INDENT COULD BE USED TO
REMOVE INERT ANTERIAL AND REMOVE INERT REMOVE CONTAMINANT SEED REMOVE														
REMOVE INERT ACT REASSICA NUSTAED NUS														FROM MUSTARD. THE INDENT MAY BE
SASSICA													6X20 SCREEN USED TO REMOVE	SLIGHTLY PREFERABLE BECAUSE OF HIGHER
SCREN SCREN SCR SEC. SCROWIRE MESH INSERT INSERT SCREN SCREN SCR SCREN											1		LAMB'S-QUARTERS BEFORE USING	
SCREN SCRE	767	BRASSICA		MUSTARD	INERT		INERT	CONTAMINANT SEED	SPIRAL	CEO CV20 WIDE MEST	GOOD	89 99	INDENT.	AS COMPARED TO .68 FOR THE SPIRAL).
INERT SEQ. #4 PINCHED GOOD GOOD GOOD GOOD GOOD GOOD GOOD GO					INERT		INERT		SCREEN					
INERT CYLINDER INDERT OOOD DETERMINES AT BROWE CARINATUS RAPESEED MISC MISC MISC MISC MISC MISC MISC MISC														
HERMOYE COCKLE. MUSTARD LYCHNIS ALBA WHITE COCKLE REMOVE COCKLE. REMOVE	L				INERT		INERT				GOOD		<u> </u>	
A SPARATION (NO RSCRIET REMOVE COCKLE. THE COLOR SORTER CAN MAKE A SEPARATION (NO RSCRIET REPORTED), BUT THE RATE IS ONLY 35 TO 45LB/HR. ALBA WHITE COCKLE LYCHNIS ALBA WHITE COCKLE														
SEPARATION (NO RESULTS REPORTED), BUT THE RATE IS ONLY 35 TO 45LB/RD. LYCHNIS ALBA WHITE COCKLE LYCH														
RARSSICA MUSTARD LYCHNIS ALBA WHITE COCKLE REMOVE COCKLE. RARSSICA MUSTARD LYCHNIS ALBA WHITE COCKLE REMOVE COCKLE. RAPPORT OF THE RATE IS ONLY 35 TO 45LB/HR. REMOVE COCKLE REMOVE COCKLE. REMOVE COCKLE. REMOVE COCKLE. REMOVE COCKLE. REMOVE COCKLE. REMOVE COCKLE. PAIR 100 100 THE RATE IS ONLY 35 TO 45LB/HR. 100 100 THE ATR-SCREEN MACHINE AND INDERT TO SCREENINGS OF SCREEN MACHINE AND INDERT CALIFORNIA MISC														COCKLE. THE COLOR SORTER CAN MAKE A
LYCHNIS ALBA WHITE COCKLE THE AIR-SCREEN MACHINE AND INDENT CYLINDER WERE ABLE TO SALVAGE ABOUT 90	301	BRASSICA		MISTARD	LVCHNIS	AT.BA	WHITE COCKIE	REMOVE COCKIE			FATR	100 100	,	
HAVE THE PROPERTY OF THE PROPE	221	DIMOUTOM		LOUIAKD			WHITE COCKLE	REMOVE COCKEE.	ELECTROSTATIC					THE RULE IS ONE! SS TO THE PROPERTY.
SALVAGE CROP SEED FROM SCREENINGS SEQ.7/64 OVER 1/14 PAGE SEED FROM SCREENINGS SEQ.7/64 OVER 1/14 SEQ. #ISC MISC MISC MISC MISC MISC MISC MISC M					1							1 100		THE AIR-SCREEN MACHINE AND INDENT
PAGE BRASSICA RAPESED MISC MISC (ABOUT 20% PURITY). AIR-SCREEN RD HOLE SEQ.7/64 OVER 1/14 SEQ.7/64 OVER 1/14 GOOD 20 COLLD ALSO BE USED. MISC MISC MISC COULD ALSO BE USED. MISC MISC MISC CYLINDER SEQ.#10 CYLINDER GOOD 98 90 MISC MISC DRAPER SEQ. #30 OVER 1/14 CALIFORNIA CALIFORNIA CALIFORNIA CALIFORNIA LOVE TO BE USED TO DETERMINE THE FEFTCTS OF TEMPERATURE AND SEEDING DEPTH MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS MISC MISC DRAPER SEQ. #10 CYLINDER GOOD 90 98 90 THIS WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS														CYLINDER WERE ABLE TO SALVAGE ABOUT
SALVAGE CROP SEED FROM SCREENINGS 926 BRASSICA RAPESEED MISC MISC MISC MISC MISC MISC MISC MISC														
PROM SCREENINGS (ABOUT 20% PURITY). AIR-SCREEN RD HOLE GOOD 20 DRAPER, BUT THE VELVET ROLL OR SPIRAL COULD ALSO BE USED. INDERT CYLINDER SEQ. #10 CYLINDER GOOD 90 98 90 INDERT CYLINDER SEQ. #10 CYLINDER GOOD 90 95 95 95 95 95 95 95 95 95 95 95 95 95														
926 BRASSICA RAPESEED MISC MISC (ABOUT 20% PURITY). AIR-SCREEN RD HOLE GOOD 20 COULD ALSO BE USED. INDENT SEQ. #10 CYLINDER GOOD 9 98 90 MISC MISC DRAPER SEQ. #30 OD 90 95 MISC MISC DRAPER SEQ. #30 OD 90 95 THIS WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH 1024 BROMUS CARINATUS BROME INERT NERT MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROMUS CARINATUS										SEO 7/64 OVER 1/14				
MISC MISC CYLINDER SEQ.#10 CYLINDER GOOD 98 90 98 90 90 95 95 90 95 95 95 95 95 95 95 95 95 95 95 95 95	926	BRASSICA		RAPESEED	MISC		MISC		AIR-SCREEN		GOOD 20			
MISC MISC CYLINDER SEQ.#10 CYLINDER GOOD 98 90 MISC MISC DRAPER SEQ. GOOD 90 95 THIS WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH CALIFORNIA LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH LOVE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE PROPERATURE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE PROPERATURE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE PROPERATURE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE PROPERATURE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE PROPERATURE THE WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE PROPERATURE THE P	220							(3000 20			
MISC MISC DRAPER SEQ. GOOD 90 95 95 THIS WAS A SAMPLE FOR THESIS WORK. TO BE USED TO DETERMINE THE EFFECTS OF TEMPERATURE AND SEEDING DEPTH 1024 BROMUS CARINATUS BROME INERT MATERIAL SCREEN W GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROMUS CARINATUS INERT PNEUMATIC ESM POOR					MISC		MISC			SEQ.#10 CYLINDER	GOOD	98 90)	
CALIFORNIA 1024 BROMUS CARINATUS BROME INERT STORES INERT STREET													i	
LOCALIFORNIA CALIFORNIA CALIFORNIA INERT SPROWE INERT SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROWLS CARINATUS CALIFORNIA														
CALIFORNIA CARINATUS CARIN														
1024 BROMUS CARINATUS BROME INET INET MATERIAL SCREEN WW GOOD 50 90 95 ON HERBICEDE APPLICATION. USE SCREENS TO CLEAN BROMUS CARINATUS NET NET NET PNEUMATIC ESM POOR				CALTEODNIA				REMOVE INFPT		9/64 RH 1/18 RH 4V20				
INERT INERT PNEUMATIC ESM POOR	1024	BROMUS	CARINATUS		INERT		INERT		SCREEN			90 91		USE SCREENS TO CLEAN BROMUS CARINATUS
	1264	BROMUS	CARINATUS											

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP	CR FP	NOTES	CONCLUSION
							REMOVE OATS AND WILD							BEST RESULTS WERE HAD ON THE GRAVITY TABLE, ALTHOUGH THIS WAS STILL NOT
42	BROMUS	CATHARTICUS	RESCUEGRASS	AVENA	SATIVA	OATS	OATS.	GRAVITY		FAIR	74	50 88		SATISFACTORY.
								SCREENS VELVET ROLL		POOR				
								PNEUMATIC		POOR				
								DRAPER	PLASTIC BELT	POOR				
									VARIOUS					
								ELECTROSTATIC	VOLT/ELECTRODE POSITION	POOR				
								INDENT DISC	100111011	POOR				
														BEST RESULTS BY SCALPING THE LOT WITH A 4X18, DROPPING SMALL RYEGRASS WITH A 1/14 AND LIFT CROP IN THE PNEUMATIC
334	BROMUS	INERMIS	SMOOTH BROME	TRASH LOLIUM		TRASH RYEGRASS	REMOVE RYEGRASS	SCREEN SCREEN	SEQ.4X18 SEQ.1/14 ROUND-HOLE	FAIR	63			SEPARATOR.
				LOLIUM		RYEGRASS		PNEUMATIC	SEQ.	FAIR		99		
206	BROMUS		BROMEGRASS	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	SCREEN	1/15 RD-HOLE W/1/8X1/4" DAMS	GOOD				OF VARIOUS SCREENS TRIED, THE 1/15 ROUND-HOLE WITH DAMS GAVE THE BEST RESULTS.
														THE 1/13" SCREEN SALVAGED 60% OF THE BROME FREE OF QUACKGRASS. A 1/13" SCREEN WITH DAMS TO UPEND THE OUACKGRASS SHOULD SAVE MORE OF THE
365	BROMUS		BROMEGRASS	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS.	SCREEN	1/13" ROUND-HOLE	FAIR		100 100		BROME.
			LINCOLN											BEST RESULTS WERE WITH THE PNEUMATIC SEPARATOR. THE AIR-SCREEN MACHINE DID ALMOST AS WELL, BUT HAD MORE CROP
124	BROMUS			BROMUS	SECALINUS	CHEATGRASS	REDUCE CHEATGRASS	PNEUMATIC		GOOD	95			LOSS.
				BROMUS	SECALINUS	CHEATGRASS		AIR-SCREEN	1/15 W/DAMS, 440RPM	FAIR	95	82 99		
				BROMUS BROMUS	SECALINUS SECALINUS	CHEATGRASS CHEATGRASS		VIBRATORY ELECTROSTATIC	FINE DECK	POOR				
				BROMOS	SECALINOS	CHEATGRASS		ELECTROSTATIC		POOR				RESULTS WERE GOOD WITH THE 1/14 ROUND-
501	BROMUS		BAYLOR BROME	BROMUS		DOWNY BROME	REMOVE DOWNY BROME.	SCREEN	1/14 ROUND-HOLE	GOOD		80		HOLE SCREEN WITH DAMS. THE 1/14 ROUND-HOLE SCREEN WITH DAMS PERFORMED WELL. A 1/13 ROUND-HOLE
502	BROMUS		BAYLOR BROME	BROMUS		DOWNY BROME	REMOVE DOWNY BROME	SCREEN	1/14 ROUND-HOLE	GOOD		67	6MM INDENT CYLINDER REMOVED ALL CONTAMINANTS EXCEPT WHEAT	MIGHT DROP MORE CONTAMINANT, ALTHOUGH WITH MORE CROP LOSS.
							REMOVE SOIL, WHEAT,	INDENT					AND WILDOAT. GRAVITY GAVE FAIR REMOVAL OF SOIL AND WHEAT BUT NOT OTHER	USE 6 MM INDENT TO REMOVE SOIL AND MISCELLANEOUS CONTAMINANTS. USE GRAVITY TABLE FOR PARTIAL REMOVAL OF
950	BROMUS		BROME	INERT		SOIL	WILDOAT	CYLINDER	6MM	GOOD			CONTAMINANTS.	WHEAT.
				INERT	AESTIVUM	SOIL WHEAT		GRAVITY GRAVITY		FAIR FAIR				
				MISCELLANEOU				INDENT						
				S				CYLINDER	6MM	GOOD				
792	BROMUS		REGAR BROMEGRASS	MISC.		MISC.	REMOVE WILD OATS, DOWNY BROME, ORCHARDGRASS,WHEAT, BARLEY, ETC.	SCREEN	SEQ.1/18X3/4 SLOTTED	GOOD	100	90 100		90% OF THE WILD OAT AND AN UNDETERNIED % OF WHEAT, BARLEY AND DOCK WERE REMOVED WITH THE 1/18X3/4 SLOTTED SCREEN AND A PORTION OF THE SMALLER CONTAMINANT SEEDS WERE REMOVED BY THE 4X20 WOVEN WIRE SCREEN. TOTAL CROP LOSS WAS ABOUT 10%.
.,,,,	Ditorios		Ditoribution				Diameter, Bre.	Deltaan	SEQ.4X20 WOVEN WIRE	COOL	100	30 200		100.
				MISC.		MISC.		SCREEN	SCR	GOOD				
							REMOVE INERT						NOT POSSIBILITIES BECAUSE THERE IS NOT ENOUGH LENGTH	NO SUCCESS WITH THIS PROBLEM. BEST RESULTS WERE WITH THE 1/12X1/2 SLOTTED SCREEN WHICH DROPPED 25% OF THE LOT COMPOSED MOSTLY OF INERT
436	BUCHLOE	DACTYLOIDES	BUFFALOGRASS	INERT INERT		INERT	MATERIAL.	SCREEN DRAPER	1/12X1/2 SLOT	POOR			DIFFERENCE IN THE SEEDS.	MATERIAL.
				INERT		INERT		VELVET ROLL		POOR				
				INERT		INERT		VIBRATORY		POOR				
				INERT		INERT		PNEUMATIC		POOR	\vdash			
	CALAMAGROSTI			INERT		INERT	REMOVE ASSORTED	INDENT		POOR			CALAMAGROSTIS AND ARCTAGROSTIS WITH ASSORTED	THE SPECIAL INDENT CYLINDER (1/17 R.H. X 26 GA.) WORKED THE BEST ON THIS MIXTURE YIELDING A 96.5% FINAL
593	S		REEDGRASS	WEEDS		WEEDS	WEEDS.	CYLINDER	#4 CYLINDER	FAIR	57	99	WEED SEEDS.	PURITY WITH 14.2% CROP LOSS.
				WEEDS		WEEDS		INDENT CYLINDER	SPECIAL INDENT CYL. 1/17X26GA.	GOOD	57	97		
								INDENT	SEQ. SPECIAL INDENT	3000				
				WEEDS		WEEDS		CYLINDER	CYL.					
			TROPICAL FORAGE	WEEDS		WEEDS		PNEUMATIC	SEQ. 1 PASS, FIBRE-TRAN	FAIR		97		BEST RESULTS WERE OBTAINED WITH THE FRICTION SEPARATOR AND VELVET ROLLS. BOTH WERE ABLE TO REMOVE ALL DIRT CLODS WITH ABOUT 27% LOSS. OTHER
631	CALOPOGONIUM	MUCUNOIDES	LEGUME	CLODS		CLODS	REMOVE DIRT CLODS.	FRICTION	BELT, FOAM BAR	GOOD	39	99		SEPARATORS WERE INEFFECTIVE.
				CLODS		CLODS CLODS		FRICTION VELVET ROLL	2 PASSES 1 PASS	GOOD	39 39	100		
				CLODS		CLODS			2 PASSES	GOOD	39	100		<u> </u>
							REMOVE LOW-							THE ELECTROSTATIC AND PNEUMATIC SEPARATORS SEEM TO HAVE THE BEST CHANCE OF RAISING THE GERMINATION.
428	CAPSICUM		PEPPER	CAPSICUM		PEPPER	GERMINATION SEED.	ELECTROSTATIC						NO RESULTS AVAILABLE, HOWEVER.

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	CR FP	NOTES	CONCLUSION
							REMOVE DARK COLORED					AIR SEPARATOR, SCREENS AND ELECTROSTATIC SEPARATOR WERE	THE COLOR SORTER SHOWED LIMITED PROMISE. A MORE SELECTIVE SORTER
644	CAPSICUM		PEPPER	CAPSICUM		PEPPER	SEED	COLOR SORTER		FAIR		UNSUCCESSFUL. IN ADDITION, A THRESHED	MIGHT BE MORE EFFECTIVE. BELT THRESHER WAS EFFECTIVE IN
							THRESH CAYENNE		VARIOUS BELT			SAMPLE WAS SCREENED OVER #40 ROUND HOLE SCREEN, THEN	THRESHING PEPPERS W/O TOO MUCH PULVERIZING OR GRINDING. SAMPLES CAN
732	CAPSICUM		CAYENNE PEPPER	N/A		N/A	PEPPERS ON BELT THRESHER	BELT THRESHER	SPACINGS, 1/8" TO 1/2"			EXPOSED TO 500 FPM AIR COLUMN WITH GOOD RESULTS.	BE PROCESSED FURTHER BY PNEUMATIC SEPARATION AND SCREENING.
			COLUMBIA				REMOVE ENTIRE HULL					WITH GOOD REGORDS.	DITIMITION IND CONDENTIO.
1153	CAREX	APERTA	SEDGE	CAREX	ATERTA	COLUMBIA SEDGE	FROM SEED	SCARIFIER	LAH W/#12 MANTLE	GOOD			THE SORTEX COLOR SORTER APPEARED TO
							REMOVE THE OFF-WHITE		SORTEX, SENS=5,				REMOVE ALL THE WHITE SEEDS FROM THE
310	CARTHAMUS	SATIVUS	SAFFLOWER			OFF-WHITE SEED	SEEDS.	COLOR SORTER	PULSE=1, A.R. #6	GOOD	100 100)	SAFFLOWER SEED WITH VERY LITTLE LOSS. FRACTIONS FROM ALL STEPS IN THE
							REMOVE HULLS FROM						SEQUENCE WERE SENT TO SUBMITTER FOR
199	CARTHAMUS	TINCTORIUS	SAFFLOWER	HULLS		HULLS	SAFFLOWER MEAL.	SCREEN	SEQ.34X34 SEQ.FRACT. HELD BY				EVALUATION.
				HULLS		HULLS		PNEUMATIC	SCREEN				
									SEQ.FRACT. THRU SCREEN,				
								INDENT	.027"DIAMX.012"				
				HULLS HULLS		HULLS HULLS		CYLINDER	POCKETS				
				HULLS		HULLS		ELECTROSTATIC VIBRATORY		POOR			
													THE #8-1/2 ROUND HOLE SCREEN
													RECOVERED 76% OF THE ORIGINAL SAMPLE FREE OF WHEAT AND WITH A VERY SMALL
191	CARTHAMUS	TINCTORIUS	SAFFLOWER	TRITICUM		WHEAT	REMOVE WHEAT	SCREEN	#8-1/2 ROUND HOLE	GOOD	100 100		AMOUNT OF SAFFLOWER LOST.
1138	CARUM	CARVI	CARAWAY	SCLEROTINIA		SCLEROTIA	REMOVE SCLEROTIA	COLOR SORTER	#70 FILTER	GOOD 10	0 82 100	ALTERNATE PHONE NUMBER IN ALBANY 928-3760	THE COLOR SORTER CAN REMOVE ABOUT 80% OF THE SCLEROTIA WITH A SINGLE PASS.
1267	CEANOTHUS	CUNNEATUS											
1268	CEANOTHUS	INTERGERRIMUS											
							DETERMINE BEST METHOD, SUITABLE FOR						THE BRUSH MACHINE DEHULLED ALMOST ALL THE SEED WITH NO APPARENT DAMAGE.
							USE IN AFRICAN						THE SEED DROPPED THROUGH THE MANTLE.
							PEASANT COOPERATIVES						THE 1/16RH SCREEN OVER A 6X32 WW
							AND ASSOCIATIONS, FOR THRESHING AND		SEQ1.BRUSH MACHINE,			R. G. GRIFFITHS' PHONE NO.:	SCREEN, FOLLOWED BY BLOWING YIELDED A SAMPLE ABOUT 95% PURE WITH LITTLE
1128	CENCHRUS	CILIARIS	BUFEL GRASS	HULLS	HULLS	HULLS	CLEANING SEED.	OTHER	12SQ MANTLE	GOOD	90	61-32-15.	LOSS.
				INERT	INERT	INERT		SCREENS	SEQ1.1/16RH OVER 6X32	GOOD	90		
				INERT	INERT	INERT		PNEUMATIC	SEQ1.	GOOD	90		
				HULLS	HULLS	HULLS		BELT THRESHER	SEQ2.NO CLEARANCE, PEBBLE-TOP	POOR			
	CERATONIA CERCOCARPUS		CAROB MT. MAHOGANY	TAIRDO		INERT	DEBEARD AND CLEAN	SCARIFIER	LAH				
				2000								THE VIBRATOR, INCLINED DRAPER AND FRICTION SEPARATORS WERE UNSATISFACTORY. SEE PROBLEM SAMPLES #1056 AND #1057	BEST RESULTS WERE OBTAINED WITH THE
675	CHAMAECYPARI	FORMASENSIS		INERT		INERT	REMOVE SEGMENTED STEM PIECES	VELVET ROLL		GOOD	80	(FORMERLY PART OF #675) FOR SIMILAR PROBLEMS.	VELVET ROLLS WHICH REMOVED 80% OF THE INERT MATERIAL WITH A LOSS OF 20%.
				INERT		INERT		PNEUMATIC		FAIR	50		
	CHAMAECYPARI						REMOVE SEGMENTED					THIS SAMPLE FORMERLY PART OF #675. SEE #675 AND #1057 FOR	BEST RESULTS WERE OBTAINED WITH THE VELVET ROLLS WHICH SALVAGED 95% OF THE SEED AND REMOVED 90% OF THE INERT
1056	3	TAIWANENSIS		INERT		INERT	STEM PIECES.	VELVET ROLL VIBRATORY		GOOD FAIR	90 50	SIMILAR PROBLEMS.	MATERIAL.
				INERT		INERT		PNEUMATIC		FAIR	30		
												THRESHING TESTS WERE	
						UNTHRESHED						REQUESTED FOR THIS MATERIAL.	THE BRUSH DEBEARDER GAVE BEST RESULTS
1196	CHLORIS	GAYANA	RHODESGRASS	CHLORIS CHLORIS	GAYANA GAYANA	RHODESGRASS UNTHRESHED	THRESH	DEBEARDER DEBEARDER	FILAMENT THRESHER LAH W/20X20WW MANTLE	FAIR GOOD		THE FILAMENT	FOR THRESHING CHLORIS SEED.
									, compount resulting				BASED ON LIMITED TRIALS, THE
							REMOVE DIGITARIA						PNEUMATIC SEPARATOR DOES SOME GOOD, REMOVING ABOUT 80% OF THE CRABGRASS
723	CHLORIS	GAYANA	RHODESGRASS	DIGITARIA	ADSCENDENS	CRABGRASS	ADSCENDENS	PNEUMATIC		FAIR	80		WITH A LOSS OF A THIRD OF THE CROP.
													THE DRAPER AND INDENT CYLINDER BOTH WERE ABLE TO PERFORM THE SEPARATION
								INDENT					AT THE NECESSARY CAPACITY, BUT NO PURITY ANALYSIS WAS PERFORMED FOR
896	CHLORIS	GAYANA	RHODESGRASS			LOVEGRASS	REMOVE LOVEGRASS.	CYLINDER	1.25 MM CYLINDER				EITHER TEST.
				ERAGROSTIS		LOVEGRASS		DRAPER	SMOOTH VINYL BELT				EXCELLENT RESULTS WERE OBTAINED BY
							REMOVE WEEDS AND		SEQ.5/64X3/4 OVER				USING 5/64X3/4, 1/12, AND 1/23 SCREENS TO REMOVE TRASH AND THE VIBRATOR TO REMOVE WEED SEEDS. 94% OF THE CROP WAS SALVAGED AT 99.6%
336	CHLORIS	GAYANA	RHODESGRASS			TRASH	TRASH.	SCREENS	1/12 OVER 1/23	GOOD	1 1		PURITY.
				WEEDS		WEEDS		VIBRATORY	SEQ.FRACT OVER 1/23	GOOD	100	TWO LOTS WERE CONDITIONED:	
												ONE WAS UNTHRESHED AND THE OTHER WAS PREVIOUSLY	USE BRUSH DEBEARDER FOR THRESHING
	PUDVEANTURMIT	CINERARIAEFOL		CHRYSANTHEMU	CINERARIAEFOLI		DETERMINE THRESHING AND CLEANING					THRESHED. THIS MATERIAL WAS SEED FOR INCREASE. THE LAH	SEED FROM THE FLOWER HEADS AND AIR- SCREEN WITH #7RH TOP AND 24X24WW
1147		IUM	PYRETHRUM	M	UM	PYRETHRUM	SEQUENCE	SCARIFIER	LAH W/#7 MANTLE	GOOD		SCARIFIER DID A GOOD J	BOTTOM WITH LIGHT AIR APPROX 250 FPM
				CHRYSANTHEMU M	CINERARIAEFOLI	PYRETHRUM		AIR-SCREEN	#7 TOP, 24X24WW BOTTOM AND AIR	GOOD			
ldot				PI	UPI	FIREIHKUM	L	MIK-SCREEN	DOLLOW AND AIR	GUUD			I .

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	S QUALI IP	CR F	NOTES	CONCLUSION
							USE AIR COLUMN TO REMOVE INERT MATERIAL FROM						
1244		CINERARIAEFOL	PYRETHRUM	INERT			BREEDER LOTS OF PYRETHRUM SEED.					THESE ARE LOTS IN THE AREA OF A FEW GRAMS	
	CHRYSANTHEMU	CINERARIEFOLI			CINERARIAEFOLI		DETERMINE CLEANING					A FEW GRAPIS	
1270	M	UM	PYRETHRUM	M	UM	PYRETHRUM	SEQUENCE						SCREENING FOLLOWED BY INDENT CYLINDER
	OUDVCANTURMI								CEO 6Y24 OVER 6Y24				YIELDED VERY GOOD RESULTS. A 1.25MM CYLINDER YIELDED 99+% PURE CROP WITH 9% LOSS. A 1.6MM CYLINDER WILL YIELD
911	CHRYSANTHEMU M	LEUCANTHEMUM	OXEYE DAISY	INERT		INERT	CLEAN SEED.	SCREENS	SEQ.6X24 OVER 6X34 WOVEN WIRE	GOOD			GREATER PURITY BUT A CROP LOSS OF 17%.
				INERT		INERT		INDENT CYLINDER	SEQ.1.25MM CYLINDER	GOOD	9	9	
							REMOVE THE DOCK AND CHICKWEED COMPLETELY. REDUCE						IT APPEARS THAT THE NOXIOUS WEEDS (RUMEX AND STELLARIA) CAN BEĞCOMPLETELY REMOVED USING THE INDENT CYLINDER. RUMEX ALONE CAN
	CHRYSANTHEMU						THE OTHER WEEDSŸAS	INDENT					BETREMOVED COMPLETELY WITH THE 1/23
991	М	SPP		RUMEX	SPP MEDIA	DOCK	MUCH AS POSSIBLE	CYLINDER SCREEN	2MM POCKET 1/23 ROUND HOLE				ROUND HOLE SCREEN.
	CHRYSANTHEMU		EDIBLE CHRYSAMTHEMU									THIS SAMPLE CONTAINED HEADS OF DOGFENNEL THAT WERE SIMILAR IN SIZE AND SHAPE TO	USE PNEUMATIC AND BRUSH MACHINE TO
1049	M		M	ANTHEMIS ANTHEMIS	COTULA	DOGFENNEL DOGFENNEL	REMOVE DOGFENNEL	PNEUMATIC SCARIFIER	LA-H #12 MANTLE	GOOD		THE CROP. A SEQUENCE	REMOVE DOGFENNEL FROM CHRYSANTHEMUM.
1207	CHRYSANTHEMU		EDIBLE CHRYSANTHEMU		6010221		REMOVE INERT; REMOVE	SCREEN		FAIR		THREE SAMPLES OF EDIBLE CHRY.:FIELD RUN, SMALL SEED	
12071	M		М	INERT	CONVOLVULUS	WILD BUCKWHEAT	WILD BUCKWHEAT	SCREEN	4X20 OR 4X22 WW 1/16X1/2 SLOT	GOOD	99	FROM LIGHT END OF GRAVIT	
1017	CHRYSANTHEMU M		SHASTA DAISY										
	CHRYSOTHAMNU		omorn bridge									THRESHING THE SAMPLE BEFORE ANY KIND OF SEPARATION BROKE UP HULLS AND STEMS WHICH WERE DIFFICULT TO REMOVE FROM THE SEED, SO THRESHING WAS DONE	
600			RABBITBRUSH	AWNS		AWNS	REMOVE AWNS	PNEUMATIC	SEQ.	GOOD		AFTER A SEPARATION.	THE BEST PROCEDURE SEEMED TO BE A SE
				AWNS		AWNS AWNS		BELT THRESHER PNEUMATIC	SEQ.	GOOD GOOD			
							REMOVE JOHNSON					VELVET ROLL, AIR COLUMN, ELECTROSTATIC, FRICTION AND CHUTE SEPARATORS WERE	THE VIBRATOR REMOVED ALL JOHNSONGRASS WITH 13% LOSS AND THE DRAPER WAS ABLE TO REDUCE THE JOHNSONGRASS TO 63 PER
554	CICHORIUM	ENDIVA	ENDIVE	SORGHUM	HALEPENSE HALEPENSE	JOHNSONGRASS JOHNSONGRASS	GRASS.	VIBRATORY DRAPER	SANDPAPER DECK	GOOD	100 10	0 INEFFCTIVE.	POUND WITH A 24% LOSS.
667	CINERARIA	MARITIMA	DUSTY MILLER				REMOVE GRASS SEED AND PIGWEED	FRICTION VIBRATORY		GOOD			FRACTIONS FROM EACH TRIAL WERE SENT TO SUBMITTER FOR EVALUATION.
								VIBRATORI	SPECIAL INDENT	GOOD			
								INDENT CYLINDER	#4 INDENT				
1174	CITRULLUS	LANATUS	WATERMELLON				CHARACTERIZE 8 VARIETIES OF WATERMELLON WITH MVS						
	CLEMATIS		CLEMATIS					INDENT CYLINDER					
	CORNUS	NUTTALLI	PACIFIC DOGWOOD	CORNUS	NUTTALLII		REMOVE BRUISED DOGWOOD BERRIES	COLOR SORTER		FAIR		A COLOR SORTER IS THE ONLY MACHINE CAPABLE OF REMOVING BRUISED (BLACK) BERRIES FROM THE NORMAL RED BERRIES. THERE IS SOME DIFFICULTY FEEDING THE MATERIAL AND MULTIPLE RUNS ARE REQUIRED TO REDUCE LOSS AND IMPROVE THE PERCENTAGE OF BRUISED BERRIES REMOVED	USE COLOR SORTER TO REMOVE BRUISED DOGMOOD BERRIES
													THE BELT THRESHING/SCREENING/PNEUMATIC/VIBRATO R SEQUENCE DID A GOOD JOB RECOVERING 90% OF THE CROWNVETCH. ALTHOUGH A
450	CODONTITA	WADTA	CDOWNVETCH	ACRODVROM	DPDFNC	OHAGEGASS	DEMOVE OUROVORAGE	DELT TUDECUES	SEO	GOOD		ATTEMPT WAS MADE TO PERFORM THE SEPARATION BEFORE DE- HULLING THE VETCH, BUT CROP	FEW QUACKGRASS WERE LEFT IN THE LOT, THEY WERE LARGE AND AN R5 INDENT DISC OR A #12 INDENT CYLINDER SHOULD DEMONE THESE PRADILY
450	CORONILLA	VARIA	CROWNVETCH		REPENS		REMOVE QUACKGRASS.	BELT THRESHER	SEQ.1/12 OVER 1/20	GOOD		THE SEPARATION BEFORE DE-	THEY WERE LARGE AND AN R5 INDENT DISC
450 (CORONILLA	VARIA	CROWNVETCH	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS.	SCREENS	SEQ.1/12 OVER 1/20 RH	GOOD		THE SEPARATION BEFORE DE- HULLING THE VETCH, BUT CROP	THEY WERE LARGE AND AN R5 INDENT DISC OR A #12 INDENT CYLINDER SHOULD
450	CORONILLA	VARIA	CROWNVETCH	AGROPYRON AGROPYRON	REPENS REPENS	QUACKGRASS QUACKGRASS	REMOVE QUACKGRASS.	SCREENS PNEUMATIC	SEQ.1/12 OVER 1/20 RH SEQ. SEQ.DROPPED FRCT	GOOD GOOD		THE SEPARATION BEFORE DE- HULLING THE VETCH, BUT CROP	THEY WERE LARGE AND AN R5 INDENT DISC OR A #12 INDENT CYLINDER SHOULD
450 (CORONILLA	VARIA	CROWNVETCH	AGROPYRON	REPENS	QUACKGRASS QUACKGRASS QUACKGRASS	REMOVE CANADA	SCREENS PNEUMATIC	SEQ.1/12 OVER 1/20 RH SEQ.	GOOD		THE SEPARATION BEFORE DE- HULLING THE VETCH, BUT CROP	THEY WERE LARGE AND AN R5 INDENT DISC OR A #12 INDENT CYLINDER SHOULD
	CORONILLA	VARIA VARIA	CROWNVETCH	AGROPYRON AGROPYRON CIRSIUM	REPENS REPENS	QUACKGRASS QUACKGRASS QUACKGRASS		SCREENS PNEUMATIC	SEQ.1/12 OVER 1/20 RH SEQ. SEQ.DROPPED FRCT	GOOD GOOD	60	THE SEPARATION BEFORE DE- HULLING THE VETCH, BUT CROP LOSS WAS ABOUT 30%.	THEY WERE LARGE AND AN R5 INDENT DISC OR A #12 INDENT CYLLIDER SHOULD REMOVE THESE READILY. THE PNEUMATIC SEPARATOR WAS VERY EFFECTIVE. THE MAGNETIC SEPARATOR

NO CROP GENUS	CROP SPECIES	CROP COMMON	CONTAMINANT	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R F	P NOTES	CONCLUSION
453 CORONILLA	VARIA	CROWNVETCH	CORONILLA	VARIA	CROWNVETCH FRAGMENTS	REMOVE BROKEN CROWNVETCH, DOCK, RED CLOVER, ETC.	GRAVITY	SEQ. COARSE DECK, AIR=4, SPEED=550, SIDESLOPE=8, BACKSLOPE=2	GOOD			THE V-3-1/2 DISC ALSO LOOKED VERY GOOD IN LIFTING SHORT MATERIAL.	THE #6 INDENT CYLINDER PERFORMED VERY WELL, YIELDING A CLEAN FRACTION THAT APPEARED TO HAVE NO CONTAMINANTS IN IT.
			RUMEX		DOCK		INDENT CYLINDER	#6 CYLINDER	GOOD				
			TRIFOLIUM	PRATENSE	RED CLOVER		INDENT CYLINDER	#6 CYLINDER	GOOD				
			1811 022 081	THILDNO	KED CEGVER			WO CIDINDEN	0002				THE #7 INDENT AND THE PNEUMATIC
420 CORONILLA	VARIA	CROWNVETCH	INERT		BROKEN MATERIAL	BROKEN MATERIAL.	INDENT CYLINDER	SEQ.#7 CYLINDER	FAIR				SEPARATOR DID THE BEST AND THE FINAL PRODUCT MAY BE ACCEPTABLE.
			INERT		LIGHT MATERIAL INERT		PNEUMATIC VIBRATORY	SEQ.	FAIR POOR				
													THE SAMPLE WAS BELT THRESHED, BLOWN IN THE PNEUMATIC SEPARATOR, AND
						THRESH AND CLEAN							SCREENED ON 1/12 AND 1/22 ROUND-HOLE
435 CORONILLA	VARIA	CROWNVETCH	INERT		INERT INERT	SEED.	PNEUMATIC	SEQ.	GOOD				SCREENS WITH GOOD RESULTS.
			INERT		INERT		SCREENS	SEQ.1/12 OVER 1/22 RH	GOOD				
													AFTER THRESHING, THE LOT WAS BLOWN
						THRESH AND CLEAN							AND SEEDS STILL IN THE HULL WERE RETHRESHED. ABOUT 75% OF THE LOT WAS
454 CORONILLA	VARIA	CROWNVETCH	INERT		INERT INERT	LOT.	BELT THRESHER PNEUMATIC	SEQ.	GOOD				SALVAGED IN THIS WAY.
								SEQ.REJECT FROM					
			INERT		INERT		BELT THRESHER PNEUMATIC	PNEUMATIC SEQ.	GOOD				
393 CORONILLA	VARIA	CROWNVETCH	LOLIUM		RYEGRASS	REMOVE RYEGRASS AND RUSSIAN THISTLE							MEASUREMENTS ONLY.
				KALI									
			SALSOLA	TENUIFOLIA	RUSSIAN THISTLE	REMOVE RED CLOVER, MUD CLODS, MALLOW, DOCK, LAMBSQUARTER AND INERT MATERIAL. THESE COMPRISE ABOUT	INDENT						THE #6 INDENT CYLINDER LIFTED ABOUT 75% OF THE LOT, ALMOST ALL WAS CONTAMINANT, AND THE PNEUMATIC SEPARATOR LIFTER ANOTHER 3% 22% OF
455 CORONILLA	VARIA	CROWNVETCH	TRIFOLIUM	PRATENSE	RED CLOVER	80% OF THE LOT.	CYLINDER	SEQ.#6 CYLINDER	GOOD				THE LOT WAS SALVAGED AS CLEAN SEED.
			INERT		INERT		PNEUMATIC		GOOD		_		
			MALVA		MALLOW								
			CHENOPODIUM	ALBUM	LAMBSQUARTER								
1094 CREPIS	ALPINA		CREPIS	ALPINA	UNDEBEARDED CREPIS ALPINA	DEBEARD CREPIS ALPINA	DEBEARDER	LAH WITH #14 SCREEN	COOD			LOT SIZE WAS FIVE POUNDS. MATERIAL NEEDED TO BE DEBEARDED BEFORE PLANTING.	USE BRUSH-TYPE DEBEARDER TO DEBEARD CREPIS ALPINA.
1094 CREF IS	ADE THA	EARLY	CREFIS	ADF INA	ADETINA	DETERMINE SIZE	DEBEARDER	BAH WITH WIT SCREEN	GOOD			DEDERROED BEFORE FERNITING.	THE SMALLEST SCREENS THAT WOULD PASS
119 CROTALARIA	SPECTABILIS	SPECTABILIS CROTALARIA				DISTRUBUTION OF SEED LOT.							ALL THE CROTALARIA WERE A #12 ROUND HOLE AND A 6/64X3/4 ELONGATED HOLE. THE SMALLEST SCREENS THAT WOULD PASS
		GIANT STRIATA				DETERMINE SIZE DISTRIBUTION OF SEED							ALL THE CROTALARIA WERE THE #9 ROUND HOLE AND 2X10 ELONGATED HOLE. A #7 ROUND HOLE PASSED 96% AND A 4X16
118 CROTALARIA	STRIATA	CROTALARIA				LOT. REMOVE SPLIT							PASSED 61%. MAGNETIC, COLOR, PNEUMATIC, AND
576 CUCUMIS	SATIVUS	CUCUMBER	CUCUMIS	SATIVUS	SPLIT CUCUMBER SEED	CUCUMBER SEED FROM GOOD SEED.	MAGNETIC		POOR				FRICTION SEPARATORS WERE INEFFECTIVE IN SEPARATING SP
							COLOR SORTER		POOR				
							PNEUMATIC FRICTION		POOR				
628 CUCUMIS	SATIVUS	CUCUMBER	DISEASED SEED		DISEASED SEED	REMOVE BLACK DISEASED SEED PARTICLES AND OTHER BLACK INERT PIECES.	SCREEN	SEQ. 5 1/2 X 3/4				AIR, VIBRATOR AND FRICTION SEPARATORS WERE INEFFECTIVE IN THIS PROBLEM	THE BEST RESULTS WERE OBTAINED WITH 5 1/2 X 3/4 AND 1/18 X 3/4 SCREENS WHICH REMOVED ABOUT HALF THE DISEASED SEED WITH RELATIVELY LOW CROP LOSS.
645 CUCUMIS		CUCUMBER				REMOVE BROKEN SEEDS	SCREEN INDENT DISC	SEQ. 1/18 X 3/4 A SIZE DISK	GOOD	9		AIR SEPARATOR AND SCREENS 94 WERE INEFFECTIVE.	INDENT DISK REMOVED 93% OF THE BROKEN SEED WITH 25% LOSS. THE INDENT CYLINDER ALSO SHOWED PROMISE.
645 CUCUMIS		CUCUMBER				REMOVE BROKEN SEEDS		A SIZE DISK SPECIAL INDENT CYLINDER					SEED WITH 25% LOSS. THE INDENT
645 CUCUMIS 847 CUCURBITA	PEPO	CUCUMBER	CUCURBITA		SQUASH	REMOVE SQUASH SEED	INDENT DISC	A SIZE DISK SPECIAL INDENT CYLINDER WRATTEN #47-B FILTER, REJECT: LIGHT, LIGHT SENS.:	GOOD			94 WERE INEFFECTIVE.	SEED WITH 25% LOSS. THE INDENT
	PEPO		INERT		INERT	REMOVE SQUASH SEED	INDENT DISC INDENT CYLINDER COLOR SORTER FRICTION	A SIZE DISK SPECIAL INDENT CYLINDER WRATTEN #47-B FILTER, REJECT: LIGHT, LIGHT SENS.:	GOOD GOOD	9	7 9	PROCESSOR REQUIRED LESS THAN 5% CROP LOSS AND LESS THAN .25% CONTAMINANT. THIS REPORT FORMERLY UNDER SAMPLE 99 #749.	SEED WITH 25% LOSS. THE INDENT CYLINDER ALSO SHOWED PROMISE. THE COLOR SORTER CAN EASILY MAKE THE SEPARATION OF SQUASH SEED FROM
847 CUCURBITA		PUMPKIN	INERT INERT		INERT INERT	REMOVE SQUASH SEED WITH COLOR SORTER. REMOVE INERT MATERIAL: PIECES OF	INDENT DISC INDENT CYLINDER COLOR SORTER FRICTION COLOR SORTER	A SIZE DISK SPECIAL INDENT CYLINDER WRATTEN #47-B FILTER, REJECT: LIGHT, LIGHT SENS.: 75, DELAY: 28	GOOD GOOD GOOD FAIR	88 99	7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	PROCESSOR REQUIRED LESS THAN 5% CROP LOSS AND LESS THAN .25% CONTAMINANT. THIS REPORT FORMERLY UNDER SAMPLE 39 #749.	SEED WITH 25% LOSS. THE INDENT CYLINDER ALSO SHOWED PROMISE. THE COLOR SORTER CAN EASILY MAKE THE SEPARATION OF SQUASH SEED FROM PUMPKIN. THE FRICTION SEPARATOR GAVE A PRODUCT
847 CUCURBITA		PUMPKIN	INERT		INERT	REMOVE SQUASH SEED WITH COLOR SORTER. REMOVE INERT MATERIAL: PIECES OF SKIN	INDENT DISC INDENT CYLINDER COLOR SORTER FRICTION	A SIZE DISK SPECIAL INDENT CYLINDER WRATTEN #47-B FILTER, REJECT: LIGHT, LIGHT SENS.: 75, DELAY: 28	GOOD GOOD GOOD FAIR FAIR	9 8 9 7	7 9	PROCESSOR REQUIRED LESS THAN 5% CROP LOSS AND LESS THAN .25% CONTAMINANT. THIS REPORT FORMERLY UNDER SAMPLE 99 #749.	SEED WITH 25% LOSS. THE INDENT CYLINDER ALSO SHOWED PROMISE. THE COLOR SORTER CAN EASILY MAKE THE SEPARATION OF SQUASH SEED FROM PUMPKIN. THE FRICTION SEPARATOR GAVE A PRODUCT MEETING THE PROCESSOR'S REQUIREMENTS. ALL SEPARATION TRIALS LOOKED VERY
847 CUCURBITA		PUMPKIN	INERT INERT INERT		INERT INERT INERT	REMOVE SQUASH SEED WITH COLOR SORTER. REMOVE INERT MATERIAL: PIECES OF	INDENT DISC INDENT CYLINDER COLOR SORTER FRICTION COLOR SORTER MAGNETIC VIBRATORY	A SIZE DISK SPECIAL INDENT CYLINDER WRATTEN #47-B FILTER, REJECT: LIGHT, LIGHT SENS.: 75, DELAY: 28 1 FT. WIDE, CARPET BELT, FOAM BAR SANDBLASTED AL. DECK 2 PASSES, REFUNNING DISCARD	GOOD GOOD GOOD FAIR FAIR	9 8 9 7	7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	PROCESSOR REQUIRED LESS THAN 5% CROP LOSS AND LESS THAN .25% CONTAMINANT. THIS REPORT FORMERLY UNDER SAMPLE 99 #749. 90 00	SEED WITH 25% LOSS. THE INDENT CYLINDER ALSO SHOWED PROMISE. THE COLOR SORTER CAN EASILY MAKE THE SEPARATION OF SQUASH SEED FROM PUMPKIN. THE FRICTION SEPARATOR GAVE A PRODUCT MEETING THE PROCESSOR'S REQUIREMENTS.
847 CUCURBITA 1039 CUCURBITA		PUMPKIN PUMPKIN BUTTERCUP	INERT INERT INERT INERT		INERT INERT INERT INERT INERT	REMOVE SQUASH SEED WITH COLOR SORTER. REMOVE INERT MATERIAL: PIECES OF SKIN REMOVE BLACK INERT MATERIAL (RIND AND	INDENT DISC INDENT CYLINDER COLOR SORTER FRICTION COLOR SORTER MAGNETIC VIBRATORY COLOR SORTER	A SIZE DISK SPECIAL INDENT CYLINDER WRATTEN #47-B FILTER, REJECT: LIGHT, LIGHT SENS.: 75, DELAY: 28 1 FT. WIDE, CARPET BELT, FOAM BAR SANDBLASTED AL. DECK 2 PASSES, RERUNNING DISCARD 2 PASSES, RERUNNING	GOOD GOOD GOOD FAIR FAIR FAIR GOOD	9 8 9 7	77 55 55 66 10 33 10	PROCESSOR REQUIRED LESS THAN 5% CROP LOSS AND LESS THAN .25% CONTAMINANT. THIS REPORT FORMERLY UNDER SAMPLE 99 #749.	SEED WITH 25% LOSS. THE INDENT CYLINDER ALSO SHOWED PROMISE. THE COLOR SORTER CAN EASILY MAKE THE SEPARATION OF SQUASH SEED FROM PUMPKIN. THE FRICTION SEPARATOR GAVE A PRODUCT MEETING THE PROCESSOR'S REQUIREMENTS. ALL SEPARATION TRIALS LOOKED VERY GOOD WITH SALVAGE RATES OF 92 TO 100% AND PURITIES OF 99 OR BETTER
847 CUCURBITA 1039 CUCURBITA		PUMPKIN PUMPKIN BUTTERCUP	INERT INERT INERT INERT		INERT INERT INERT INERT	REMOVE SQUASH SEED WITH COLOR SORTER. REMOVE INERT MATERIAL: PIECES OF SKIN REMOVE BLACK INERT MATERIAL (RIND AND	INDENT DISC INDENT CYLINDER COLOR SORTER FRICTION COLOR SORTER MAGNETIC VIBRATORY	A SIZE DISK SPECIAL INDENT CYLINDER WRATTEN #47-B FILTER, REJECT: LIGHT, LIGHT SENS.: 75, DELAY: 28 1 FT. WIDE, CARPET BELT, FOAM BAR SANDBLASTED AL. DECK 2 PASSES, RERUNNING DISCARD DISCARD	GOOD GOOD GOOD FAIR FAIR FAIR	9 8 9 7	7 5 5 6 10 3 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	PROCESSOR REQUIRED LESS THAN 5% CROP LOSS AND LESS THAN -25% CONTAMINANT. THIS REPORT FORMERLY UNDER SAMPLE 99 #749. 900 000	SEED WITH 25% LOSS. THE INDENT CYLINDER ALSO SHOWED PROMISE. THE COLOR SORTER CAN EASILY MAKE THE SEPARATION OF SQUASH SEED FROM PUMPKIN. THE FRICTION SEPARATOR GAVE A PRODUCT MEETING THE PROCESSOR'S REQUIREMENTS. ALL SEPARATION TRIALS LOOKED VERY GOOD WITH SALVAGE RATES OF 92 TO 100% AND PURITIES OF 99 OR BETTER

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FP	NOTES	CONCLUSION
749 CUCURBITA		SQUASH	INERT		INERT	REMOVE INERT MATERIAL: PIECES OF SKIN	FRICTION	ONE FOOT WIDE, CARPET BELT, FOAM BAR	GOOD		E 10	PROCESSOR REQUIRED LESS THAN 5% CROP LOSS AND LESS THAN 0.25% CONTAMINANT.	SEPARATION ON THE FOOT WIDE FRICTION SEPARATOR MET THE REQUIREMENTS OF THE PROCESSOR.
749 CUCURBITA		SQUASH	INERI		INERI	SKIN	FRICTION	FOUR FOOT WIDE,	GOOD	0:	5 10	U .25% CONTAMINANT.	PROCESSOR.
			INERT		INERT		FRICTION	CARPET BELT, BRUSH BAR	FAIR	8	2 10		
			INERT		INERT		COLOR SORTER	DAK	POOR		0 10		
												FRICTION, VELVET ROLLS, INCLINED DRAPER AND SCREENS	THE ELECTROSTATIC SEPARATOR YIELDED EXCELLENT RESULTS, REMOVING ALMOST 100% OF THE SCLEROTIA WITH ONLY 1%
722 CUCURBITA		SQUASH	SCLEROTIA		SCLEROTIA	REMOVE SCLEROTIA		15KV 3/4" FROM BELT		9		WERE INEFFECTIVE.	CROP LOSS.
			SCLEROTIA		SCLEROTIA		OTHER	PRECISION GRADER	POOR	6	5		BEST RESULTS WERE OBTAINED WITH A
						REMOVE SEEDS WITH							10/64X3/4 SLOTTED-HOLE SCREEN OVER A 9/64X3/4 SLOTTED-HOLE SCREEN. 77% OF THE CRACKED SEED COAT SEEDS WERE
646 CUCURBITA	SCLEROTIA	SQUASH				SPLIT COATS.	FRICTION		POOR				REMOVED YIELDING A PURITY OF 93.6%.
							PNEUMATIC	10/64X3/4 OVER A	POOR		+		
							SCREENS	9/64X3/4	FAIR	80 7	7 9	4	
						DETACH SEEDS FROM							THE BELT THRESHER EFFECTIVELY DETACHED THE SEED FROM THE HEADS. THE SEED WAS CLEANED USING SCREENS. SINCE THERE IS SOME DIFFERENCE IN SEED SIZE AMONG THE ARTICHOKE HEADS, THE OPTIMUM SCREEN SIZE WILL PROBABLY
819 CYNARA	SCOLYMUS	ARTICHOKE	INERT		INERT	HEAD AND CLEAN	BELT THRESHER SCREEN	SEQ. #20 RD HOLE	GOOD				VARY.
							SCREEN	SEQ. #12 RD HOLE	GOOD				
1090 CYNARA	SCOLYMUS	ARTICHOKE				REMOVE SEEDS FROM ARTICHOKE SEED HEAD.	SCREEN	SEQ. #9 RD HOLE	GOOD				
193 CYNODON	DACTYLON	COMMON BERMUDAGRASS	CYNODON	DACTYLON ARIDUS	GIANT BERMUDAGRASS	SEPARATE COMMON BERMUDAGRASS FROM GIANT BERMUDAGRASS.	ELECTROSTATIC	20KV, VER=10, HOR=4, RO T=1-3/4	GOOD		9.	4	THE ELECTROSTATIC SEPARATOR PERFORMED THE BEST YIELDING 93% OF THE COMMON BERMUDAGRASS AT 94% PURITY.
			a-n	DACTYLON								_	
			CYNODON	ARIDUS DACTYLON	GIANT BERMUDAGRASS		SCREEN	.026" ROUND-HOLE	FAIR		9'	/	
			CYNODON	ARIDUS DACTYLON	GIANT BERMUDAGRASS		SCREEN	6X36 SLOT	FAIR		9:	1	
			CYNODON	ARIDUS	GIANT BERMUDAGRASS		PNEUMATIC		POOR		8	7	
			CYNODON	DACTYLON ARIDUS	GIANT BERMUDAGRASS		VIBRATORY		POOR				
			CINODON	AKIDOO	GTANT BERMODAGRAGO		VIBRATORI		FOOR				SCREENS AND PNEUMATIC SEPARATOR WERE UNABLE TO REMOVE MORE THAN 27% OF THE
705 CYNODON	DACTYLON	COMMON BERMUDAGRASS	CYNODON	DACTYLON ARIDUS	GIANT BERMUDAGRASS	REMOVE GIANT BERMUDAGRASS							GIANT BERMUDAGRASS AND DUE TO SMALL SAMPLE SIZE, FURTHER TESTS WERE NOT POSSIBLE.
1204 CYNODON	DACTYLON	BERMUDA GRASS	INERT			DO GENERAL CLEANING.	AIR-SCREEN	SEQ:18X18WWTOP,6X40W W BOTTOM,AIR	GOOD			THIS WAS A BRREDER LOT OR ABOUT 20 LBS WITH MUCH INERT MATERIAL. AND WATERGRASS. A SEQUENCE OF AIR SCREEN AND GRAVITY BROUGHT PURITY FROM AN ESTIMATED 505 TO APPROXIMATELY 99%.	
			ECHINOCHLOA	CRUSGALLI	WATERGRASS		GRAVITY	SEQ:LAH, CLOTH, LOW AIR	GOOD				
													NONE OF THE MACHINES ACCOMPLISHED THE
207 DACTYLIS	GLOMERATA	ORCHARDGRASS	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	INDENT DISC INDENT	R5 DISC, 30-40RPM 7/32"X.022"DEEP	FAIR		-		DESIRED SEPARATION OF REMOVING AL
			AGROPYRON	REPENS	QUACKGRASS		CYLINDER	POCKETS	FAIR				
			AGROPYRON	REPENS	QUACKGRASS		VIBRATORY	#80 FINE SANDPAPER	POOR				ALL METHODS GAVE UNSATISFACTORY RESULTS IN MAKING THIS SEPARATION. ONLY THE INDENT DISC WAS ABLE TO MAKE A SEPARATION, BUT WITH A 50% TO 70%
519 DACTYLIS	GLOMERATA	ORCHARDGRASS	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	INDENT DISC	M OR V-6 1/2 DISC	POOR				CROP LOSS.
						DEMOVE WILD ONTON							THE ABOVE SEQUENCE SALVAGED 79% OF THE SEED FREE OF ONION. IF THE HELD FRACTION FROM THE FINAL 1/22 SCREENING WAS CONSIDERED CLEAN
424 DACTYLIS	GLOMERATA	ORCHARDGRASS		CANADENSE	WILD ONION	BULBLETS.	SCREEN	SEQ.1/22 ROUND-HOLE					ENOUGH, TOTAL RECOVERY WOULD BE 90%.
			ALLIUM	CANADENSE	WILD ONION		PNEUMATIC	SEQ.REJECT FROM 1/22 SEQ.HAND RUBBING,	GOOD		+		
			ALLIUM	CANADENSE	WILD ONION		OTHER	REJECT FROM PNEU.	GOOD				
			ALLIUM	CANADENSE	WILD ONION		PNEUMATIC	SEQ. SEQ.1/22 ROUND-	GOOD		+		
			ALLIUM	CANADENSE	WILD ONION	REMOVE INERT	SCREEN	HOLE, CLEAN FRACT FROM PNEUM.	GOOD	10	0 10	D	
253 DACTYLIS	GLOMERATA	ORCHARDGRASS	INERT		INERT	REMOVE INERT MATERIAL (STERILE OR EMPTY FLORETS, FLORETS WITH STAMENS AND VELVETGRASS GLUMES), VELVET GRASS (7.3%) AND RATTALL PESCUE (.19%).	SCREEN	SEQ1.1/21	FAIR	71		GOOD RESULTS OBTAINED WITH SEQUENCE 2 (VIBRATOR/PNEUMATIC), WITH VELVETGRASS BEING CARRIED UPHILL ON THE VIBRATOR AND RATTAIL FESCUE BEING DROPPED IN THE BLOWER. BEST PRACTICAL RESU	BEST PRACTICAL RESULTS WITH SEQUENCE 1 (SEE NOTES), USING 1/21, 1/20, 6X26, AND PNEUMATIC SEPARATOR. 58.5% OF LOT SALVAGED FREE OF CONTAMINANTS.
								SEQ1.1/20,FRACT HELD					
			HOLCUS	LANATUS	VELVETGRASS		SCREEN	ON 1/21 SEQ1.6X26,FRACT THRU	FAIR		+		
			VULPIA	MYUROS	RATTAIL FESCUE		SCREEN	1/21	FAIR				

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R FP	NOTES	CONCLUSION
			HOLCUS	LANATUS	VELVETGRASS		PNEUMATIC	SEQ1.FRACT THRU 6X26		1	00 10	0	
			VULPIA	MYUROS	RATTAIL FESCUE		VIBRATORY	SEQ2.	GOOD				
			HOLCUS	LANATUS	RATTAIL FESCUE		PNEUMATIC	SEQ2.	GOOD				THE VIBRATOR REMOVED ABOUT 50% OF THE
174 DACTYLIS	GLOMERATA	POTOMAC ORCHARDGRASS	LOLIUM LOLIUM LOLIUM		RYEGRASS RYEGRASS RYEGRASS	REDUCE RYEGRASS TO MEET BLUE TAG REQUIREMENTS.	AIR-SCREEN VIBRATORY PNEUMATIC	4X22 W/DAMS CROCUS CLOTH DECK	GOOD GOOD POOR	93	95 99	9	LOT CONTAINING ALL OR NEARLY ALL THE RYEGRASS. THE AIR-SCREEN MACHINE DID THE BEST, SALVAGING 53% OF THE LOT WITH .6% RYEGRASS.
			LOLIUM		RYEGRASS		GRAVITY		POOR				
260 DACTYLIS	GLOMERATA	ORCHARDGRASS	LOLTIM		RYEGRASS	REMOVE RYEGRASS	SCREEN	SEQ.1/22 ROUND-HOLE	GOOD	98			Recommended procedure is to screen with 1/22 round hole with dams, debeard the held portion to break down crop doubles, and screen again with the 1/22 to recover more crop.
200 BileTTEE	ODO:IDIGITII	Olicin in Dolario	DODI'S		RTBORESO	REMOVE RESOURCE	Delebber	SEQ.RUB HELD FRACT	GGGZ				with the 1/22 to recover more crop.
			LOLIUM		RYEGRASS		OTHER	TO DEBEARD	GOOD				
								SEQ.1/22, DEBEARDED					
			LOLIUM		RYEGRASS	REMOVE RYEGRASS FROM SAMPLE CONTAINING CROP SINGLES, CROP DOUBLES, AND CROP	SCREEN	FRACT.	GOOD		10	0	
261 DACTYLIS	GLOMERATA	ORCHARDGRASS	LOT.TIIM		RYEGRASS	GROATS.	SCREEN	SEQ.1/19 ROUND HOLE					Most of the crop singles were recla
								SEQ.HELD FRACT					
			LOLIUM		RYEGRASS		OTHER	DEBEARDED			_		
			LOLIUM		RYEGRASS		PNEUMATIC	SEQ.DEBEARDED FRACT BLOWN					
			DOLLOM		RIEGRASS		PNEOMATIC	SEQ.1/25RH:DROPPED					
			LOLIUM		RYEGRASS		SCREEN	IN BLOWER					
								SEQ.4X22, FRACT					
			LOLIUM		RYEGRASS		SCREEN	THROUGH 1/19					78% of the crop could be salvaged
263 DACTYLIS	GLOMERATA	ORCHARDGRASS	LOLIUM		RYEGRASS	REMOVE RYEGRASS	SCREEN	1/23 ROUND HOLE	FAIR	81 1	00 10	0	with a 1/23 round hole screen as clean seed. Other trials were unsuccessful although the gravity table and the vibrator did show a tendency to concentrate the ryegrass.
			LOLIUM		RYEGRASS		VELVET ROLL		POOR				
			LOLIUM LOLIUM		RYEGRASS RYEGRASS		PNEUMATIC VIBRATORY		POOR		_		
			LOLIUM		RYEGRASS		GRAVITY		POOR				
268 DACTYLIS	GLOMERATA	PENNLATE ORCHARDGRASS	LOLIUM LOLIUM LOLIUM		RYEGRASS RYEGRASS RYEGRASS	REMOVE RYEGRASS	SCREENS PNEUMATIC SCREEN	SEQ.1/20 RH OVER 6X23 SLOT SEQ.	FAIR				THE COMBINATION OF SCREENING AND PNEUMATIC SEPARATION RECOVERED ABOUT 30% OF THE ORIGINAL SAMPLE WHICH WAS A REASONABLY GOOD PERCENTAGE CONSIDERING THE AMOUNT OF TRASH AND RYEGRASS IN THE ORIGINAL LOT.
269 DACTYLIS	GLOMERATA	ORCHARDGRASS			RYEGRASS	REMOVE RYEGRASS	SCREENS	SEQ038" 1/23 RH OVER 6X25 SLOT	FAIR	37 1	00 100		BEST RESULTS WERE OBTAINED BY SCREENING WITH A 1/33 ROUND-HOLE OVER A 6X25 SLOT. 73% OF THE ORCHARDGRASS WAS RECOVERED. THE BOUNCE PLATE DID REASONABLY WELL, RECOVERING 57% OF THE ORCHARDGRASS. ORIGINAL PURITY WAS ONLY 37%.
200 DACTIBIS	GLOMEKATA	ORCHARDGRADD	LOLIUM		RYEGRASS	REMOVE RIEGRADS	OTHER	BOUNCE PLATE	FAIR	37 1			WAS ONE! 37%.
333 DACTYLIS	GLOMERATA	ORCHARDGRASS	LOLIUM		RYEGRASS RYEGRASS	REMOVE RYEGRASS	VIBRATORY SCREENS	SANDPAPER DECK	FAIR POOR				THE VIBRATOR SALVAGED A LARGE FRACTION OF ORCHARDGRASS WITH A SMALL AMOUNT OF RYEGRASS.
			LOLIUM		RYEGRASS		OTHER		POOR				
	-	1	LOLIUM		RYEGRASS		PNEUMATIC	HORIZONTAL SEED	POOR		+		
			LOLIUM		RYEGRASS		OTHER	SHOOTER	POOR		\perp		
387 DACTYLIS	GLOMERATA	ORCHARDGRASS	LOLIUM		RYEGRASS	REMOVE RYEGRASS							MEASUREMENTS ONLY.
515 DACTYLIS	GLOMERATA	ORCHARDGRASS ABLE	LOLIUM		RYEGRASS	REMOVE RYEGRASS USING BOUNCE PLATE.	OTHER	BOUNCE PLATE, ONE PASS	GOOD	96	75 9:	9	THE BOUNCE PLATE PERFORMED WELL ALTHOUGH RERUNNING THE CLEAN FRACTION WOULD REDUCE THE RYEGRASS FURTHER. ALL THE MACHINES TRIED DID SOME
594 DACTYLIS	GLOMERATA	ORCHARDGRASS			RYEGRASS	REMOVE RYEGRASS	PNEUMATIC		POOR				CONCENTRATING, BUT NOT ENOUGH.
	-	-	LOLIUM		RYEGRASS RYEGRASS		SCREENS OTHER	BOUNCE PLATE	POOR		-		
633 DACTYLIS	GLOMERATA	ORCHARDGRASS			RYEGRASS	REMOVE RYEGRASS	PNEUMATIC		GOOD	3.4			BEST RESULTS WERE OBTAINED WITH PNEUMATIC SEPARATOR AND SCREEN. THE SCREEN IS PROBABLY PREFERABLE BECAUSE IT HOLDS A FRACTION OF CROP DOUBLES WHICH COULD BE FURTHER PROCESSED FOR ADDITIONAL YIELD.
		ORCHARD				REMOVE RYEGRASS, TALL FESCUE, ANNUAL BLUEGRASS, AND	SCREEN	1/20 ROUND-HOLE		3.4	94 10	THIS WAS A BREEDER LOT THAT WAS CONTAMINANTED MOSTLY WITH RYEGRASS BUT ALSO CONTAINED SOME TALL FESCUE, ANNUAL BLUEGRASS, LESSER SNAPDRAGON AND OTHERS. OF MAIN CONCERN WAS THE RYEGRASS BECAUSE OF	
1140 DACTYLIS	GLOMERATA	GRASS	LOLIUM		RYEGRASS	OTHERS	SCREENS	SEQ	FAIR		_	ITS SIMILARITY TO THE CROP.	
	1	1	LOLIUM	I	RYEGRASS	I	PNEUMATIC	SEQ	FAIR	1 1	- 1		

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FP	NOTES	CONCLUSION
			LOLIUM		RYEGRASS		GRAVITY	SEQ	FAIR				
			LOLIUM		RYEGRASS		VIBRATORY	SEQ	FAIR				GOOD RESULTS WERE OBTAINED USING THE
						DEDUCE CONCENSOR STON							INDENT CYLINDER TO REMOVE SHEEP
						REDUCE CONCENTRATION OF RYEGRASS, SHEEP							SORREL AND PLANTAIN (ALL SORREL REMOVED, 180 BUCKHORN/LB LEFT, ALL
						SORREL AND BUCKHORN PLANTAIN TO	INDENT						RYEGRASS LEFT, 7% SHRINKAGE) FOLLOWED BY SCREENING (A FEW RYEGRASS LEFT,
120 DACTYLIS	GLOMERATA	ORCHARDGRASS	RUMEX	ACETOSELLA	SHEEP SORREL	ACCEPTABLE LEVELS.	CYLINDER	SEQ.#5 CYLINDER	GOOD	80		VIBRATOR GAVE POOR RESULTS.	245 BUCKHORN/LB LEFT, 27% SHRINKAGE).
			PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN		INDENT CYLINDER	SEQ.#5 CYLINDER	GOOD	80			
				BANCEODATA				SEQ.1/18 W/4 DAMS,					
			LOLIUM		RYEGRASS		AIR-SCREEN	440 RPM, 1/2" STROKE	GOOD	80		THIS WAS POTOMAC BREEDER SEED	
												AND NEEDED ALL RUMEX REMOVED	
												FOR CERTIFICATION. THE 2.75 MM INDENT CYLINDER REMOVED A	
						REMOVE SHEEP SORREL	INDENT			15/		LARGE PORTION OF THE RUMES WITH 2% LOSS. THE 3.75MM	USE A 2.75MM INDENT CYLINDER TO REMOVE SHEEP SORREL FROM
1255 DACTYLIS	GLOMERATA	ORCHARDGRASS	RUMEX	ACETOSELLA	SHEEP SORREL	FROM ORCHARDGRASS	CYLINDER	2.75MM POCKET	GOOD	LB 10	0	INDENT CYLIN	ORCHARDGRASS.
			RUMEX	ACETOSELLA	SHEEP SORREL		INDENT CYLINDER	3.75MM POCKET	FAIR	15/ LB 10	n		
							INDENT			22 10			
			ECHINOCHLOA	CRUSGALLI	BARNYARDGRASS	REDUCE WEED	CYLINDER	3.75MM POCKET	GOOD				
						CONCENTRATIONS							
						(RATTAIL FESCUE- 1270/LB, CHESS-							
						600/LB, PLANTAIN- 400/LB, SHEEP SORREL-						The pneumatic separator was	
						200/LB) TO		SEQ.1/15 W/DAMS OVER				ineffective in this	The air screen machine was able to
121 DACTYLIS	GLOMERATA	ORCHARDGRASS	VULPIA	MYUROS	RATTAIL FESCUE	ACCEPTABLE LEVELS.	AIR-SCREEN	4X28 SEQ.1/15 W/DAMS OVER	GOOD	99 8	0	separation.	remove mo
			BROMUS	SECALINUS	CHESS		AIR-SCREEN	4X28	GOOD	99 10	0		
			PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN		INDENT CYLINDER	SEQ.#5 CYLINDER, 15 RPM	GOOD	99 6	7		
							INDENT	SEQ.#5 CYLINDER, 15					
			RUMEX	ACETOSELLA	SHEEP SORREL	REMOVE WILD ONION	CYLINDER	RPM	FAIR	99 2	5		
205 DAGWI TO	GY OMEDAMA	PENNLATE		CANADENCE	MILD ONLON	(100% REMOVAL	CODERNO	GDO 1/10 OVER 6V22	DATE				SCREENING WITH A 1/19 OVER A 6X23
285 DACYLIS	GLOMERATA	ORCHARDGRASS	ALLIUM	CANADENSE	WILD ONION	NECESSARY).	SCREENS	SEQ.1/19 OVER 6X23 SEQ.18KV,ROT=5.25,HO	FAIR				REMOVED MUCH
			ALLIUM	CANADENSE CANADENSE	WILD ONION		ELECTROSTATIC PNEUMATIC	R=7, VER=9.75	FAIR POOR	10	0 100)	
			ALLIUM	CANADENSE	WILD ONION		VIBRATORY		POOR				
137 DAHLIA		DAHLIA	TRASH		TRASH	REMOVE TRASH	SCREENS	SEQ.1/16X1/2 OVER #7					THE SCREEN/INDENT CYLINDER EVIDENTLY YIELDED A SATISFACTORY SEPARATION.
							INDENT						
			TRASH		TRASH		CYLINDER	SEQ.#20 CYLINDER					THE VIBRATOR SEPARATOR SHOWED THE
													BEST RESULTS. IT YIELDED 4 FRACTIONS. THE LOWER FRACTION,54% OF
						REMOVE ZINNIA FROM							THE SAMPLE, WAS 95% DAHLIA, THE
104 DAHLIA		DAHLIA	ZINNIA ZINNIA		ZINNIA ZINNIA	DAHLIA SEED.	VIBRATORY PNEUMATIC	FINE SANDPAPER DECK	GOOD POOR		9!	i	SECOND FRACTIO
			ZINNIA		ZINNIA		ELECTROSTATIC		POOR				
			ZINNIA		ZINNIA		INDENT DISC		POOR				PROCESSED WITH SUBMITTER PRESENT. NO
136 DAHLIA		DAHLIA				CLEAN SEED.						THIS MATERIAL WAS HAND	RECORD.
												THRESHED BEFORE SCREENING.	
												RESULTING CLEAN FRACTION WAS APPROXIMATELY 75% SEED. THIS	
1102 DATHTA	DIAMAMA	DATE TA	DAIII TA		BIRLD DIN DALUTA	DETERMINE CLEANING	CODERNO	SEQ 24/64 RH, 12/64	GOOD			WAS ACCEPTABLE FOR THIS	
1123 DALHIA	PINNATA		DAHLIA DAHLIA		FIELD RUN DALHIA FIELD RUN DALHIA	SEQUENCE	SCREENS PNEUMATIC	RH,1/13 RH SEQ ESM	GOOD			SUBMITTER.	
1258 DANTHONIA	CALIFORNICA												THE VIBRATOR DID THE BEST, REMOVING
						REMOVE YELLOW		1/17RH OVER 6X26					ALL STARTHISTLE WITH ONLY 5% LOSS OF
417 DAUCUS	CAROTA	CARROT	CENTAUREA CENTAUREA		YELLOW STARTHISTLE YELLOW STARTHISTLE	STARTHISTLE	SCREENS VIBRATORY	SLOT	FAIR GOOD	10 10	0 100		CARROT.
			CENTAUREA		YELLOW STARTHISTLE		PNEUMATIC	DOVINGE BY A ME	POOR				
			CENTAUREA CENTAUREA	SOLSTITIALIS SOLSTITIALIS	YELLOW STARTHISTLE YELLOW STARTHISTLE		OTHER ELECTROSTATIC	BOUNCE PLATE	POOR POOR		\pm	<u> </u>	
			CENTAUREA	SOLSTITIALIS	YELLOW STARTHISTLE		VELVET ROLL		POOR				THE FRICTION SEPARATOR PERFORMED WELL
													IN THIS PROBLEM. EACH FRACTION FROM
666 DAUCUS	CAROTA	CARROT	CHENOPODIUM	ALBUM	LAMBSQUARTERS	REMOVE LAMBSQUARTERS	FRICTION		GOOD				THE FIRST RUN WAS RERUN TO SALVAGE MORE SEED.
												ROUND HOLE SCREENS SHOWED	
												SOME PROMISE IN MAKING THE SEPARATION. THE FRICTION	
						REMOVE CANADA						SEPARATOR REMOVED SOME CONTAMINANT, BUT WITH HIGH	THE VIBRATOR PROVIDES THE BEST SEPARATION. FEED RATE MUST BE KEPT
772 DAUCUS	CAROTA	CARROT	CIRSIUM	ARVENSE	CANADA THISTLE	THISTLE	VIBRATORY		GOOD	9	0	CROP LOSS.	VERY LOW.
						REMOVE DODDER, BARNYARD GRASS,						THE FIRST DRAPER TRIAL	
00						GREEN FOXTAIL AND						REMOVED THE FOLLOWING:	THE FIRST DRAPER TRIAL WITH SMOOTH
90 DAUCUS	CAROTA	CARROT	CUSCUTA		DODDER	LAMBSQUARTER.	VIBRATORY	FINE SANDPAPER DECK 38 FPM, 26 DEG,	GOOD		+	CARROT-82%, DODDER-100%,	PLASTIC BELT
			CHENOPODIUM	ALBUM	LAMBSQUARTER		DRAPER	SMOOTH PLASTIC	GOOD				

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FP NOTES	CONCLUSION
								38 FPM, 23 DEG,				
			ECHINOCHLOA SETARIA	CRUSGALLI VIRIDIS	BARNYARD GRASS GREEN FOXTAIL		DRAPER VELVET ROLL	CANVAS BELT	GOOD POOR			
			SEIARIA	VIKIDIS	GREEN FORTAIL		PNEUMATIC		POOR			
355 DAUCUS	CAROTA	CARROT	CUSCUTA		DODDER	REMOVE DODDER, BARNYARDGRASS AND NIGHTSHADE	SCREEN	SEQ.6X20 SLOT	GOOD			THE 6X20 SCREEN/VIBRATOR SEQUENCE MADE A VERY GOOD SEPARATION. THE 6X20 SCREEN HELD 1% OF THE LOT WITH 91% OF THE DODDER.
			ECHINOCHLOA	CRUSGALII	BARNYARDGRASS		SCREEN	SEQ.6X20 SLOT	FAIR			
			ECHINOCHLOA SOLANUM	CRUSGALII	BARNYARDGRASS NIGHTSHADE		VIBRATORY VIBRATORY	SEQ.SANDPAPER DECK SEQ.SANDPAPER DECK	GOOD			
							INDENT	SEQ10625*DIAX.0184			THE SAMPLE WAS FIRST RUN ON THE INDENT WHICH REMOVED MOST OF THE DODDER, BROKEN CARROT AND SOME SHORT CARROT. THE CLEAN FRACTION WAS DIVIDED AND PART WAS RUN ON THE VIBRATOR AND PART WAS RUN	BOTH THE INDENT/VIBRATOR SEQUENCE AND INDENT/BOUNCE PLATE SEQUENCE MATERIALLY IMPROVED THE PURITY OF THE
383 DAUCUS	CAROTA	CARROT	CUSCUTA		DODDER DODDER	REMOVE DODDER	CYLINDER VIBRATORY	"DEEP POCKETS SEQ1.SANDPAPER DECK	GOOD		OVER THE BOUNCE PLATE.	SEED.
					DODDER		INDENT CYLINDER	SEQ20625"DIAX.0184	GOOD			
			CUSCUTA		DODDER		OTHER	"DEEP POCKETS SEQ2.BOUNCE PLATE	GOOD			
											SEPARATING TRIALS WERE DONE	
681 DAUCUS	CAROTA	CARROT	CUSCUTA CUSCUTA		DODDER DODDER	REMOVE DODDER	MAGNETIC SPIRAL		POOR FAIR	66	WITH A SYNTHETIC TEST MIXTURE BECAUSE NO SAMPLE WAS SUBMITTED.	WITH SEVERAL PASSES, THE SPIRAL WAS ABLE TO REMOVE MOST OF THE DODDER WITH LITTLE CROP LOSS.
1014 DAUCUS	CAROTA	CARROT	CUSCUTA		DODDER	REMOVE DODDER FROM CARROT.	INDENT CYLINDER	2.0MM	POOR	0 50		Dodder can be removed from carrot by utilizing the dodder's roundness vs the flatness of carrot. The round seeds roll and the flat seeds do not.
			CUSCUTA		DODDER		FRICTION	13DG SIDE, 9DG BACK			100	
			CUSCUTA		DODDER		DRAPER	SUEDE BLT, 23DG,43FT/MIN	GOOD	100	100	
			CUSCUTA		DODDER		DRAPER	SUEDE BLT, 25DG,52FT/MIN	FAIR	91		
			CUSCUTA		DODDER		VIBRATORY	SMALL DECK, AIR .2, 3D SIDE, 3DG BACK WOOD DECK, 3DG	POOR	83		
			CUSCUTA		DODDER		VIBRATORY	SIDE,3D BACK, 500 RPM	GOOD	100		
			CUSCUTA		DODDER		DRAPER	SMOOTH BELT, 40FPS, 23DG	BEST	100		
			CUSCUTA		DODDER			PINNING POSITION	POOR			
479 DAUCUS	CAROTA	CARROT	DAUCUS	CAROTA	CARROT	REMOVE LOW GERMINATION SEED	ELECTROSTATIC		GOOD			SEPARATION TRIALS FAILED TO GRADE THESE LOTS ACCORDING TO QUALITY.
		HYBRID	DAUCUS	CAROTA	CARROT	REMOVE LOW	COLOR SORTER		POOR			
744 DAUCUS	CAROTA	CARROT	DAUCUS DAUCUS	CAROTA CAROTA	CARROT CARROT	GERMINATION SEEDS	POOR PNEUMATIC	BATCH UNIT CONTINUOUS FLOW	GOOD GOOD			
						REMOVE LOW-						THE CARROT COULD NOT BE SIGNIFICANTLY IMPROVED BY USE OF A PNEUMATIC
760 DAUCUS	CAROTA	CARROT	DAUCUS	CAROTA	LOW-GER. CARROT SEED	GERMINATION SEED	GOOD				THIS MATERIAL WAS DIVIDED	SEPARATOR.
							INDENT				FIRST WITH THE INDENT CYLINDER AND THEN WITH THE	
1006 DAUCUS	CAROTA	CARROT	DAUCUS DAUCUS	CAROTA CAROTA	LOW GERM CARROT LOW GERM CARROT	IMPROVE GERMINATION	CYLINDER SCREEN				SCREEN	INCONCLUSIVE
			Bilocob	CIMOTI	2011 CHAROT	TEST ELECTROSTATIC	Бекиши					
1010 DAUCUS	CAROTA	CARROT	DAUCUS	CAROTA	LOW GERM CARROT	SEPARATOR TO IMPROVE GERMINATION	ELECTROSTATIC					
1020 DAUCUS	CAROTA	CARROT	DAUCUS	CAROTA	LOW GERM CARROT	IMPROVE GERMINATION		DINVING	FAIR	55	2 KG OF THREE SIZE CLASSES OF HYBRID PAK MOR. SUBMITTER CAN HANDLE THE GERM TESTS (144) IF THE SAMPLES ARE SENT 65 A FEW AT A TIME. 7/14/88	THIS WAS THE SEED USED FOR A RESEARCH PRO
1020 540003	CAROTA	CARROT	DAUCUS	CAROTA	BOW GERN CARROT	REMOVE LOW GERM	BBETROSTATIC	FINNING	PAIR	35	TWO VARITIES OF CARROT WERE SENT FOR ELECTROSTATIC SEPARATION TESTS. PRECONDITIONING TESTS ARE INDICATED THAT WILL VARY THE MOISTURE CONTENT OF THE SEEDS	FAO
1113 DAUCUS	CAROTA	CAROT	DAUCUS	CARROTA	CARROT	CARROT	ELECTROSTATIC				PRIOR TO SEPARATION.	
328 DAUCUS	CAROTA	CARROT	DIGITARIA		CRABGRASS	REMOVE CRABGRASS.	VIBRATORY					NO RESULTS REPORTED. A 6X23 SCREEN YIELDED 83% OF THE LOT WITH ONLY A FEW BARNYARDGRASS. THE VIBRATOR DID THE BEST YIELDING EITHER
286 DAUCUS	CAROTA	CARROT	ECHINOCHLOA	CRUSGALLI	BARNYARDGRASS	REMOVE BARNYARDGRASS	SCREEN	6X23	FAIR			74% WITH NO BARNYARDGRASS OR 94% WITH JUST A FEW BARNYARDGRASS.
			ECHINOCHLOA	CRUSGALLI	BARNYARDGRASS		VIBRATORY	FINE TEXTURED DECK	GOOD			
						REMOVE BARNYARDGRASS, NIGHTSHADE AND		80 GRIT SANDPAPER			THE PNEUMATIC AND	THE VIBRATOR SEPARATOR DID THE BEST,
302 DAUCUS	CAROTA	CARROT	ECHINOCHLOA	CRUSGALLI	BARNYARDGRASS	CRABGRASS	VIBRATORY	DECK	GOOD		UNSUCCESSFUL.	Y VIBRATOR SEPARATOR DID THE BEST,
			SOLANUM		NIGHTSHADE		VIBRATORY	80 GRIT SANDPAPER DECK	GOOD			
								80 GRIT SANDPAPER	2300			
			DIGITARIA		CRABGRASS	1	VIBRATORY	DECK				

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY IP	CR FP	NOTES	CONCLUSION
1068	DAUCUS	CAROTA	CARROT	ECHINOCHLOA	CRUSGALLI	WATERGRASS	REMOVE WATERGRASS	GRAVITY	BLOCK-OFF DECK, 180 GRIT	GOOD	90	RUN AT 600 VIBRATIONS PER MIN. AND HIGH END SLOPE.	USE GRAVITY TABLE WITH BLOCK-OFF DECK TO REMOVE WATERGRASS.
							REMOVE INERT MATERIAL; DO GENERAL		SEQ.#6RH, #6 1/2RH, 1/13RH, 6X25WW,			INCLUDING 4 BAGS EACH OF TWO VARITIES. THE BAGS CONTAINED RUN-OFF FROM TOP SCREEN, GRAVITY TABLE LIGHT AND HEAVY FRACTIONS, AND AIR-LIFTED	SEED FROM MILL AIR-LIGHT AND GRAVITY TABLE-LIGHT DISCARD FRACTIONS. SALVAGING SEED FROM TOP SCREEN RUN- OFF WAS NOT AS EASY (PURITY OF ONLY 88% ACHIEVED) DUE TO OVERLAP OF SIZE
1139	DAUCUS	CAROTA	CARROT	INERT	PERSICARIA	I ADVOTHIMD	CLEANING	SCREENS PNEUMATIC	1/16X1/4SLOT			MATERIAL.	AND SHAPE OF CROP AND C
				POLYGONUM		LADYSTHUMB		PNEUMATIC	SEQ.		80-	BLACK MEDIC CAN BE REMOVED FROM HULL BY VIGOROUS RUBBING, THEN EASILY REMOVED FROM CARROT BY AIR SCREEN MACH., BUT AFFECT OF RUBBING ON CARROT GERMINATION RATE UNKNOWN. THIS REPORT FORMERLY	BLACK MEDIC MAY BE REMOVED FROM CARROT SEED BY VIBRATOR, BUT CROP
1038	DAUCUS	CAROTA	CARROT	MEDICAGO	LUPULINA	GOOD	REMOVE WATERGRASS	VIBRATORY		POOR	90	UNDER SAMPLE #736.	LOSS IS HIGH. THE VIBRATOR YIELDED VERY GOOD
514	DAUCUS	CAROTA	CARROT	PASPALUM	DILATUM	WATERGRASS	AND OTHER ASSORTED WEEDS.	VIBRATORY	180 GRIT	GOOD 94	97 99		RESULTS. OTHER TRIALS WERE UNSUCCESSFUL.
								PNEUMATIC		POOR			
								ELECTROSTATIC	DOUBLES DE LES	POOR			
						+		OTHER	BOUNCE PLATE	POOR			ONE PASS ON THE VIBRATOR INCREASED
517	DAUCUS	CAROTA	CARROT	PASPALUM MISC	DILATUM	WATERGRASS MISC	REMOVE WATERGRASS AND OTHER CONTAMINANTS	VIBRATORY VIBRATORY	SEQ. SEQ.	GOOD 80	85 97 70 98	FROM THE FIRST PASS WAS NOT HELPFUL IN IMPROVING THE QUALITY OF THE CROP YIELD.	THE PURITY FROM 80% TO 97% WITH A LOSS OF 27%. THE VALUE OF THE SECOND PASS IS QUESTIONABLE, BECAUSE THE PURITY IS NOT IMPROVED MUCH WHILE ANOTHER 9% OF THE CARROT IS LOST.
													THE VIBRATOR SEPARATOR DID A VERY
537	DAUCUS	CAROTA	CARROT	PASPALUM	DILATUM	WATERGRASS	REMOVE WATERGRASS	VIBRATORY	180 GRIT DECK	GOOD	100		GOOD JOB OF THIS SEPARATION. 94% OF THE CARROT WAS SALVAGED AND WATERGRASS WAS REDUCED FROM 4400 PER POUND TO 7 PER POUND.
													THE VIBRATOR SEPARATOR WITH 180 GRIT SANDPAPER DID A VERY GOOD JOB OF
585	DAUCUS	CAROTA	CARROT	PASPALUM	DILATATUM	WATERGRASS	REMOVE WATERGRASS	VIBRATORY	180 GRIT	GOOD			REMOVING WATERGRASS FROM CARROT.
								FRICTION		POOR			
636	DAUCUS	CAROTA	CARROT	PASPALUM	DILATATUM	WATERGRASS	REMOVE WATERGRASS	FRICTION		FAIR			THE VIBRATOR SEPARATOR MADE AN ALMOST COMPLETE SEPARATION AT A GOOD FLOW RATE. A 6X20 SCREEN YIELDED A 99.96% PURE SAMPLE WITH 96% OF THE WATERGRASS REMOVED.
							REMOVE GREEN BRISTLEGRASS, NIGHTSHADE AND	VIBRATORY		GOOD		INEFFECTIVE. THE VIBRATOR RECOVERED 80% OF THE LOT WITH LITTLE CONTAMINANT. THE FRACTION NEXT TO THE CLEAN	THE VIBRATOR SALVAGED 80% OF THE CROP WITH LOW WEED COUNT. THE FIRST REJECT FRACTION WAS SCREENED TO RECOVER MORE CROP. THE FINAL PRODUCT CONTAINED ONLY A TRACE OF
303	DAUCUS	CAROTA	CARROT	SETARIA	VIRIDIS	GREEN BRISTLEGRASS	CRABGRASS.	SCREEN	6X20 WIRE SLOT SEQ.1/20, 3RD FRACT	GOOD	96 100	FRACTION ON THE V	CONTAMINANT.
				SOLANUM		NIGHTSHADE		SCREEN	FROM VIBRATOR SEQ.6X26 OVER				
				DIGITARIA		CRABGRASS		SCREENS	1/23,THRU 1/20 FRACT				
								SCREENS	SEQ.18X18OVER6X26,OV ER 1/20 FRACT				
390	DAUCUS	CAROTA	CARROT	SOLANUM SOLANUM		NIGHTSHADE	REMOVE NIGHTSHADE.	INDENT CYLINDER	.116"DIA X .037"DEEP	FAIR	96	SEED DIMENSIONS OVERLAPPED CREATING GREAT DIFFICULTY IN MAKING THIS SEPARATION.	SUCCESS WAS LIMITED WITH THIS SAMPLE. BEST RESULTS WERE WITH THE .116*DIA X .037*DEEP INDENT CYLINDER WHICH YIELDED 73% OF THE CARROT WITH 96% OF THE NIGHTSHADE REMOVED.
				COLINION		NIGHTSHADE		VIBRATORY		POOR			A 6X25 HAND SCREEN WAS EFFECTIVE IN
670	DATICUS	CAROTA	CAPPOT	SOLANUM		NICUTSUADE	DEMOVE NICHTONADE	PRICTION		POOR			REMOVING THE NIGHTSHADE FROM CARROT
6/2	DAUCUS	CAROTA	CARROT	SOLANUM		NIGHTSHADE NIGHTSHADE	REMOVE NIGHTSHADE	FRICTION SCREEN	6X25	GOOD	100 100		SEED.
992	DAUCUS	CAROTA	CARROT	SOLANUM		NIGHTSHADE	REMOVE SOLANUM COMPLETELY. LOWER PERCENTAGE OF ECHINOCHOLA. REDUCESTHE QUANTITY OF INERT TO COMPRISE<0.5% BY WT. TWO LOTS OF CARROT.	SCREENS	#6 -> 1/14 RH		253 200		THIS MATERIAL CAN BE EFFECTIVELY CONDITIONED USING ROUND HOLESSCREENS TO REMOVE THE WATERGRASS AND A PORTION OF THE INERTYMATERIAL. THE NIGHTSHADE PASSED THROUGH THE 6X24 WOVEN WIRESSCREEN AND A MAJORITY OF THE INERT MATERIAL WAS HELD ON THE956X18 WOVEN
352	2.10000	CINOIA	C.11(1O)		CRUSGALLI	BARNYARDGRASS	ING BOID OF CARROI.	SCREENS	6X18 -> 6X24 WW				Indjoined Hovels
								INDENT					
				INERT		INERT	DEMOVE CUTOKO AND	CYLINDER	2.5MM POCKET				
498	DAUCUS	CAROTA	CARROT	STICKS		STICKS	REMOVE STICKS AND ONION SEED.	SCREEN INDENT	SEQ.1.1/20X1/2	GOOD			N
								CYLINDER	SEQ.1.#10 CYLINDER	GOOD			
								PNEUMATIC INDENT	SEQ.2.	GOOD			
1								CYLINDER	SEQ.2.#10 CYLINDER	GOOD			
				ALLIUM	CEPA	ONION	1	COLOR SORTER	CPO 2	GOOD		1	

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R F	P NOTES	CONCLUSION
					PENNYCRESS (FRENCH	REMOVE FRENCH WEED ON VIBRATOR							ONE PASS ON THE VIBRATOR RECOVERED 73% OF THE CARROT FREE OF FRENCH WEED OR 80% WITH A FEW FRENCH WEED. RERUNNING THE REJECT FRACTION YIELDED 90% OF THE CARROT FREE OF FRENCH
187 DAUCUS	CAROTA	CARROT	THLASPI	ARVENSE	WEED)	SEPARATOR.	VIBRATORY	FINE SANDPAPER DECK	GOOD				WEED.
			THLASPI	ARVENSE	PENNYCRESS		VIBRATORY	FRACTION, FINE SANDPAPER	GOOD				
							INDENT					SCREENS, CHUTE AND RESILIENCE	THE INDENT CYLINDER FOLLOWED BY VIBRATOR SEPARATOR PERFORMED VERY
559 DAUCUS	CAROTA	CARROT	WEED		WEED	REMOVE WEED SEED.	CYLINDER	SEQ. #6 CYLINDER				SEPARATORS WERE INEFFECTIVE.	WELL.
430 DAUCUS	CAROTA	CARROT	WEED		WEED		VIBRATORY	SEQ.	GOOD	!	99		
													THE ABOVE SEQUENCE YIELDED A 99.7%
647 DAUCUS 988 DAUCUS	CAROTA	CARROT				REMOVE CONTAMINANT	BELT THRESHER SCREEN	SEQ.					PURE SAMPLE WITH CROP LOSS.
						SIZE SEED WITH CYLINDRICAL AND FLAT SCREENS AND COMPARE						TWO VARIETIES OF CARROT SEED WERE SIZED WITH 5.5, 5.0, 4.5, 4.0, AND 3.5 ROUND HOLE	
1210 DAUCUS	CAROTA	CARROT				RESULTS.	PNEUMATIC	SEQ.				CYL	
1211 DAUCUS	CAROTA	CARROT				CLEAN AND UPGRADE GERMINATION	SCREEN	SEQ.			10	00	
613 DAUCUS	CAROTUS	CARROT	CUSCUTA	ADUDNOP	DODDER	REMOVE DODDER (REPORTEDLY 40/LB) AND CANADA THISTLE (REPORTEDLY 20/LB).	FRICTION		POOR			ONLY 2 DODDER/LB AND NO THISTLE WERE FOUND IN THE SAMPLE ALTHOUGH THE REPORTED AMOUNTS WERE MUCH HIGHER. SO, SUNTHETIC MIXTURES WERE MADE UP FOR THESE TRIALS.	THE FRICTION SEPARATOR WAS INSEPECTIVE AT REMOVING DODDER, BUT DID REMOVE 90% OF THE THISTLE WITH 10% CROP LOSS.
853 DELPHINIUM		LARKSPUR	MALVA	ARVENSE	CANADA THISTLE MALLOW	REMOVE MALVA SEED	PNEUMATIC		GOOD		90	SCREEN, VIBRATOR, MAGNETIC, PNEUMATIC AND GRAVITY SEPARATORS WERE TRIED, BUT ONLY THE PNEUMATIC SEPARATOR GAVE SATISFACTORY RESULTS.	MALVA SEED MAY BE PARTIALLY REMOVED FROM THE DELPHINIUM SEED USING PNEUMATIC SEPARATION, BUT COMPLETE REMOVAL REQUIRES A HIGH CROP LOSS.
			MADVA		PIALLOW		PNEOMATIC		PAIR			GAVE SATISFACIONI RESOLIS.	PROCESSED WITH SUBMITTER PRESENT. NO
133 DELPHINIUM		LARKSPUR BERING				REMOVE INERT		1/12 OVER 1/13 OVER 1/14 OVER 1/15 ROUND				VIBRATOR, VELVET ROLLS, FRICTION, INCLINED DRAPER, INDENT CYLINDER AND PNEUMATIC SEPARATOR WERE	RECORD. EXCELLENT RESULTS WERE OBTAINED ON THE AIR-SCREEN WITH A 1/12 OVER A 1/13 OVER A 1/14 OVER A 1/15 ROUND HOLE SCREEN AND WITH NO AIR. 99.6% PURITY WAS OBTAINED WITH LESS THAN 1%
685 DESCHAMPSIA	BERINGENSIS	HAIRGRASS	INERT		INERT	MATERIAL: STRAW.	AIR-SCREEN	HOLE	GOOD		10	00 UNSATISFACTORY.	LOSS. LAH HULLER SCARIFIER WORKED WELL BUT
1013 DESCHAMPSIA	CAESPITOSA	TUFTED HAIR GRASS	DESCHAMPSIA	CAESPITOSA	TUFTED HAIR GRASS	DEBEARD	SCARIFIER	#26 WW MANTLE TWO RUNS	GOOD				CAUSED SOME GROATING. TWO RUNS WERE NECESSARY TO COMPLETE THE WORK.
1084 DESCHAMPSIA	CAESPITOSA	TUFTED HAIRGRASS	LOLIUM		RYEGRASS	REMOVE LONG CONTAMINANTS	INDENT CYLINDER	3.5 MM POCKET	GOOD			THIS WAS A 100 LB LOT FOR INCREASE.	USE A 3.5 MM INDENT CYLINDER TO REMOVE LONG CONTAMINANTS
			VULPIA	MYUROS	RATTAIL FESCUE		INDENT CYLINDER	3.5 MM POCKET	GOOD				
195 DIANTHUS	CARYOPHILUS	CARNATION	INERT		INERT	REMOVE INERT	PNEUMATIC	SEQ.	FAIR				NONE OF THE LAB MACHINES PERFORMED SATISFACTORILY, PARTLY BECAUSE INERT MATERIAL AND SEED DIMENSIONS OVERLAPPED. THE BEST THAT COULD BE DONE WAS WITH THE PNEUMATIC/INDENT CYLINDER SEQUENCE WHICH WAS STILL NOT VERY SATISFACTORY.
193 DIANTHOS	CARTOPHILOS	CARNATION			INERI	MAIBRIAL	INDENT	SEQ.#8 CYL.HEAVY					VERT SATISFACTORI.
			INERT		INERT		CYLINDER	FRACT FROM PNEUMATIC	FAIR				SOME TRASH WAS LIFTED BY PNEUMATIC SEPARATOR. OTHERWISE, THERE WAS NO
139 DIANTHUS	CARYOPHYLLUS	CARNATION	TRASH		TRASH TRASH	REMOVE TRASH	PNEUMATIC VIBRATORY		FAIR POOR				SUCCESS.
			TRASH		TRASH		ELECTROSTATIC		POOR				
990 DIGITALIS		TRASH	PLANTAGO	RUGELII	BLACKSEEDED PLANTAIN	REMOVE PLANTAGO COMPLETELY. REDUCE OTHER WEEDS AS COMPLETELYÄAS POSSIBLE	INDENT CYLINDER	1MM POCKET					COMBINING THE INDENT WITH SCREENING APPEARED TO REDUCE THEYOUANTITY OF PLANTAGO TO ABOUT 10% OF ITS ORIGINAL LEVEL. OTHERSWEED
								0.023 0.027 ROUND					
			SONCHUS VERONICA		SPINY SOWTHISTLE SPEEDWELL		SCREEN	HOLE			-		
				ALBUM	HEDGE MUSTARD								
DIMORPHOTHEC						REMOVE INERT MATTER		SEQ. #5 1/2 ROUND				FRICTION, ELECTROSTATIC, INCLINED DRAPER, MAGNETIC, AND INDENT CYLINDER SEPARATORS WERE NOT EFFICTIVE. THIS SAMPLE FORMERLY #768B. SEE #768 (FORMERLY #768A) FOR RELATED	A SEQUENCE OF HAND-SCREENING, PNEUMATIC SEPARATION AND VIERATOR SEPARATION WORKED WELL IN SEPARATING STICK SEED FROM STICKS AND OTHER
765 A	AURANTIACA	STICK SEED	INERT		INERT INERT	INCLUDING STICKS	SCREEN PNEUMATIC	HOLE SEQ. BATCH-TYPE			58 5 28	50 PROBLEM.	INERT MATERIAL.
			INERT		INERT		VIBRATORY	SEQ.	GOOD				DDBGTGTON GDADED (#0 op #0) von
DIMORPHOTHIC												THIS PROBLEM SAMPLE FORMERLY #768A. SEE #765 FOR ASSOCIATED PROBLEM SAMPLE	PRECISION GRADER (#8 OR #9) WORKED VERY WELL. HAND SCREENS (#8 ROUND HOLE AND 1/20X12 SLOTTED HOLE) WORKED WELL. THE BATCH-TYPE PNEUMATIC SEP WORKED BETTER THAN THE CONTINUOUS
768 A	AURANTIACA		STEMS		STEMS	REMOVE STEMS	PNEUMATIC	BATCH-TYPE #8 ROUND/1/20X1/2	GOOD		-	(FORMERLY #768B).	TYPE.
	1	1	STEMS		STEMS	1	SCREENS	SLOTTED	GOOD				

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FP	NOTES	CONCLUSION
			STEMS		STEMS		OTHER	PRECISION GRADER(#8	GOOD				
			SIEMS		SIEMS		OTHER	OR #9)	GOOD			THIS MATERIAL WAS REPRESENTED	
												VERY LITTLE SEED PROBABLY ONLY %5 BY WEIGHT.	
					UNTHRESHED YELLOW			SEQ. LAH W/26X26 WW				DEBEARDING WITH THE LAH	
1232 DRYAS	DRUMONDII	YELLOW DRYAS	DRYAS	DRUMONDII	DRYAS	DEBEARD AND CLEAN	SCARIFIER	MANTLE	GOOD			REMOVED THE L	
			DRYAS	DRUMMONII	UNTHRESHED YELLOW DRYAS		SCREENS	VARIOUS SCREENS FROM 13/64 RH TO 32X32 WW					
			DRYAS	DRUMMOMII	UNTHRESHED YELLOW		PNEUMATIC	ESM AT A LOW SETTING					
		PURPLE						#9 RD OVER 1/20X1/2					THE AIR-SCREEN MACHINE DID A GOOD JOB OF CLEANING THIS ALREADY THRESHED
892 ECHINACEA	PURPUREA	CONEFLOWER	INERT		INERT	CONDITION SEED.	AIR-SCREEN	PERF	GOOD				CONEFLOWER SEED.
													6X19, 6X20, AND 4X20 WOVEN WIRE
													SCREENS WERE EQUALLY EFFECTIVE IN REMOVING THE BULL THISTLE WITH
													MINIMAL CROP LOSS. THE SOIL
		CALIFORNIA				REMOVE SOIL, BULL							PARTICLES WERE BEST REMOVED BY MAGNETIC SEPARATION WITH VERY LITTLE
827 ECHSCHOLTZIA	CALIFORNICA	POPPY	CIRSIUM	VULGARE	BULL THISTLE	THISTLE	SCREEN	SEQ. 6X19 WOVEN WIRE	GOOD				CROP LOSS.
								SEQ. 4 ML MAG.					
			INERT		INERT		MAGNETIC	FLUID/50G SEED	GOOD				DUE TO SMALL SAMPLE SIZE, FEW
												SEE PROBLEM SAMPLE #1065	MACHINES COULD BE TESTED, BUT THE
		DWARF				REMOVE INERT MATERIAL (DIRT,						(FORMERLY WITH THIS SAMPLE) FOR SIMILAR PROBLEM WITH	FRICTION SEPARATOR DID A VERY GOOD JOB YIELDING AN ALMOST 100% PURE
706 ELEOCHARIS		SPIKERUSH	INERT		INERT	CHAFF).	VIBRATORY		POOR			SLENDER SPIKERUSH.	SAMPLE.
								VINYL BAR, SUEDE					
			INERT		INERT		FRICTION	BELT	GOOD	10	0 100	THE SAMPLE HAD BEEN THRESHED,	
												THEN CLEANED ON A CLIPPER,	
												BUT WAS 3/4 INERT MATERIAL.	
												THE VELVET ROLL, VIBRATOR, BOUNCE, GRAVITY TABLE, WATER	
												SOAKING, AND ELECTROSTATIC	SCREENING WITH A 38X38 WIRE SCREEN,
707 PL POGUADIO		DWARF	TAMPOR		TNIPPM	REMOVE INERT	DMENIMARE		DATE	25 6		SEPARATOR MADE NO OR LITTLE	6X42 WIRE SCREEN OR 26X26 WIRE SCREEN
707 ELEOCHARIS		SPIKERUSH	INERT		INERT	MATERIAL	PNEUMATIC	SUEDE BELT, VINYL	FAIR	25 6	6 50	SEPARATION.	REDUC
			INERT		INERT		FRICTION	BAR	GOOD				
			INERT		INERT		SCREEN	38X38 WIRE	FAIR	25 6	6 50	0	DUE TO SMALL SAMPLE SIZE, FURTHER
													TESTING WAS NOT POSSIBLE. HOWEVER,
												THIS PROBLEM SAMPLE FORMERLY	SLENDER SPIKEGRASS MAY BE CLEANED
		SLENDER				REMOVE INERT MATERIAL(DIRT AND		.024, .027 RD HOLE,				PART OF #706. SEE #706 FOR SAME PROBLEM WITH DWARF	SOMEWHAT WITH SCREENS OR THE PNEUMATIC SEPARATOR AT LOW AIR
1065 ELEOCHARIS		SPIKERUSH	INERT		INERT	CHAFF)	SCREENS	6X50 SLOT	FAIR			SPIKEGRASS.	VELOCITY.
			INERT		INERT INERT		PNEUMATIC		FAIR				
			INERT		INERT		FRICTION VIBRATORY		POOR				
						REMOVE ROOTS,							
						RHIZOMES, GRAVEL, ETC. FROM SPIKERUSH		SEQ.1/16X1/4 METAL					SCREENING FOLLOWED BY PNEUMATIC SEPARATION YIELDS AND ACCEPTABLE
708 ELEOCHARIS		SPIKERUSH	MISC		MISC	TUBERS.	SCREEN	SLOT	GOOD				PRODUCT.
			INERT		INERT		SCREEN	SEQ.6X24 WIRE SLOT	GOOD				
					STONES UNTHRESHED BASIN	THRESH AND SEPARATE	PNEUMATIC		GOOD				
1197 ELYMUS	CINEREUS	STONES	ELYMUS	CINERYUS	WILDRYE	HAND COLLECTION							
1003 ELYMUS 1263 ELYMUS	GLAUCUS	BLUE WILDRYE BLUE WILDRYE		GLAUCUS	BLUE WILDRYE	DEBEARD	SCARIFIER	8-12 SQUARE WIRE	GOOD				
1203 EDIMOS	GLACCOS	BEGE WIEDKIE										THE USE OF SCREEN DAMS WOULD	
100	******	RUSSIAN			DOLLARY DROVE			4000 0000				HELP MAKE A MORE EFFECIENT	
190 ELYMUS	JUNCEUS	WILDRYE	BROMUS	TECTORUM	DOWNY BROME	REMOVE DOWNY BROME	SCREEN	4X20 WIRE-MESH	POOR			SEPARATION. SAMPLE WAS DRIED BEFORE	В
												THRESHING. THE FRACTION	
						DETERMINE PROCESSING SEQUENCE FOR						CONTAINING SEEDS AND SEED- SIZED PIECES OF STEMS AND	A NEARLY PURE SEED SAMPLE OF EREMOCARPUS SEED CAN BE OBTAINED BY
						EXTRACTING AND						LEAVES FROM THE AIR-SCREEN	DRYING THE SAMPLE AND THEN FOLLOWING
						CLEANING MULLEIN						MACHINE WAS PUT THROUGH THE	THE ABOVE SEQUENCE OF THRESHING, AIR-
844 EREMOCARPUS		MULLEIN	N/A	+	N/A	SEED.	BELT THRESHER	SEQ.ZERO CLEARANCE SEQ.#18 RD. HOLE	GOOD			PNEUMATIC SEPARATOR.	SCREENING AND PNEUMATIC SEPARATION.
								TOP, 1/14 RD HOLE					
				-			AIR-SCREEN PNEUMATIC	BOTTOM	GOOD		-		
							PAROMATIC	SEQ.	GOOD				SAMPLES SENT TO SUBMITTER FOR
431 EUCALYPTUS	DELEGATENSIS	EUCALYPTUS	CHAFF		CHAFF	REMOVE CHAFF	ELECTROSTATIC						EVALUATION.
						SEPARATE SEED FROM							BECAUSE OF THE DIFFICULTY IN DETERMINING SEED FROM CHAFF, RESULTS
414 EUCALYPTUS		EUCALYPTUS	CHAFF		CHAFF	CHAFF.	ELECTROSTATIC						WERE NOT EVALUATED.
			CHAFF		CHAFF		SCREENS						
			CHAFF		CHAFF	REMOVE INERT	PNEUMATIC		-		-	THIS SAMPLE FORMERLY PART OF	THE FRICTION AND AIR SEPARATORS DID A
1072 EUCALYPTUS		EUCALYPTUS	INERT		INERT	MATERIAL	PNEUMATIC		GOOD			PROBLEM SAMPLE #710.	GOOD JOB OF REMOVING INERT MATERIAL.
			INERT		INERT		PNEUMATIC		GOOD				THE PIDOT CECHENCE ADOME VIBIDES TO
						REMOVE CHAFF, SEED							THE FIRST SEQUENCE ABOVE YIELDED THE BEST RESULTS. THE LARGE QUANTITY OF
						CAPSULE FRAGMENTS						MAGNETIC SEPARATOR AND BOUNCE	CHAFF (95%) MADE SEPARATION AND
539 EUCALYPTUS		EUCALYPTUS	MISC	-	FRICTION MISC	AND INERT MATERIAL.	ELECTROSTATIC PNEUMATIC	SEQ. 1,2 PASSES	GOOD	5	-	PLATE WERE INEFFECTIVE.	ANALYSIS VERY DIFFICULT.
			MISC	 	MISC		ELECTROSTATIC	SEQ. 1, 310 FPM SEQ. 2	FAIR	5	90	0	
			MISC		MISC		PNEUMATIC	SEQ. 2, 310 FPM	FAIR				
			MISC		MISC		SCREENS	SEQ. 2, .033 AND .038 RD	FAIR		9:		
	I .	I .	PRINC	1	IMIOC	1	DCKEENS	.030 KD	PAIR		J 9.)	1

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR	FP NOTES	CONCLUSION
1063	EUPATORIUM	PERFORATUM	COMMON BONESET											
							REMOVE HULLS FROM		SEQ.WATER SOAK FOR 5					GOOD RESULTS WERE OBTAINED WITH THE ABOVE SEQUENCE. 80% OF THE AVAILABLE
546	FAGOPYRON	ESCULENTUM	BUCKWHEAT	HULLS		HULLS	KERNELS.	OTHER	MIN.					KERNEL MATERIAL WAS SALVAGED.
				HULLS		HULLS		BELT THRESHER	SEQ. SEQ.#12,11,10,9,8,7,					
				HULLS		HULLS		SCREENS	6 RD					
				HULLS		HULLS		PNEUMATIC	SEQ.	GOOD				
1205	FAGOPYRUM	ESCULENTUM	BUCKWHEAT	INERT		SOIL	REMOVE SOIL AND OTHER INERT MATERIAL							
1200	111001 111011	DOCODDITION	Dockmin	1112111		5012	OTHER TREAT PROPERTY						SOUTH DAKOTA BLOWER WAS USED	
1219	FESTUCA	ARUNDINACE	REBEL II	DACTVLIS	GLOMERATA	ORCHARDGRASS	REMOVE ORCHARDGRASS	DNRHMATIC	SDB @15	GOOD	518 /LB		TO LIFT THE ORCHARDGRASS. DOUBLES AND EMPTIES COMPRISED MOST OF THE LIFTED FRACTION. SEVERAL ORCHARDGRASS WERE ALSO FOUND IN THE LIFTED FRACTION ANS\D NONE WERE FOUND IN THE UNLIFTED FRACTION.	
1217	PEDIOCA	AKONDINACE	TABLE PESCOE	DACTIBIS	GEOMERATA	OKCHARDGRADD	REMOVE ORCHARDGRASS	PNEOMATIC	SDB WIS	GOOD	7 111		THIS SAMPLE WAS FROM A 50000	
1162	FESTUCA	ARUNDINACEA	TURF TYPE	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	SCREEN	HAND SCREEN 4X22 WIRE WOVEN	FAIR	100	75	LB LOT WITH 30 QUACK PER POUND AFTER CONDITIONING. QUACKGRASS IS PROHIBITED SO NEEDS TO BE COMPLETELY REMOVED. FAX NO IS 503-633- 100 4434. SCREENS HELD ALL OF THE WILD GARLIC AND SOME OF THE	A RECOMMENDATION TO USE 4X22 W
													MULTIPLE FLORETTS OF THE CROP. THE SMALLER SCREEN WAS	USE A 4X20 (ALT 4X22)WOVEN WIRE
104-	DD CONTACT	A DUDUDITUS CO.	TALL FESCUE		WINDALE	HILD CARLES		CODEEN	4720	2005		100	TESTED TO BE SURE TO REMOVE	SCREENTO REMOVE WILD GARLIC FROM TALL
1247	FESTUCA	ARUNDINACEA	TALL FESCUE	ALLIUM ALLIUM	VINEALE VINEALE	WILD GARLIC WILD GARLIC		SCREEN SCREEN	4X20 4X22	GOOD		100	ALL OF THE CONTAMINANT.	FESCUE.
				111111111	***************************************	WILD GIRLIE		DEREBU	11122	GGGZ		100		BEST SEPARATION WITH R4-1/2 INDENT
							REMOVE BUR							DISK WHICH REDUCED CHERVIL FROM 9% TO 1% WITH A SHRINKAGE OF 32% OF THE
164	FESTUCA	ARUNDINACEA	ALTA FESCUE	ANTHRISCUS ANTHRISCUS	SCANDICINA SCANDICINA	BUR BEAKCHERVIL BUR BEAKCHERVIL	BEAKCHERVIL.	INDENT DISC ELECTROSTATIC	R4-1/2 DISK, 70RPM	GOOD POOR	91	92	99	ORIGINAL LOT.
				ANTHRISCUS	SCANDICINA	BUR BEAKCHERVIL		VIBRATORY		POOR				
812	FESTUCA	ARUNDINACEA	ANTHRISCUS	DACTYLIS	GLOMERATA	ORCHARDGRASS	REMOVE ORCHARDGRASS	SCREEN	4X22 WIRE MESH	FAIR				THIS SAMPLE CAN POSSIBLY BE CLEANED TO THE DESIRED PURITY USING A SEQUENCE OF MACHINES INCLUDING PNEUMATIC, SCREENS, GRAVITY, AND INDENT DISCS.
								INDENT DISC	V6 1/2 DISC	FAIR				
								PNEUMATIC		FAIR				
								GRAVITY		PAIR				THE #8 INDENT CYLINDER WAS ABLE TO
								INDENT						REMOVE ALL THE BEDSTRAW WITH ONLY 8%
862	FESTUCA	ARUNDINACEA	TALL FESCUE	GALIUM GALIUM	TRICORNE TRICORNE	CORN BEDSTRAW	REMOVE CORN BEDSTRAW	CYLINDER SCREEN	#8 CYLINDER 1/16 ROUND HOLE	GOOD FAIR		100		CROP LOSS.
				GALIUM	TRICORNE	CORN BEDSTRAW		GRAVITY	1/10 ROOND HODE	FAIR	100		100	
													SEED MEASUREMENTS INDICATE THAT ALL DIMENSIONS OVERLAP SO INDENT OR SCREEN	
391	FESTUCA	ARUNDINACEA	TALL FESCUE	LOLIUM		RYEGRASS	REMOVE RYEGRASS.	PNEUMATIC		POOR			SEPARATION IS NOT POSSIBLE.	NO SUCCESS WITH THIS SAMPLE.
				LOLIUM		RYEGRASS		VIBRATORY		POOR				
				LOLIUM		RYEGRASS		OTHER	BOUNCE PLATE	POOR				GRAVITY AND PNEUMATIC SEPARATORS ARE
751	FESTUCA	ARUNDINACEA	TALL FESCUE	LOLIUM	PERENNE,	PERENNIAL, ANNUAL RYEGRASS	REMOVE ANNUAL AND PERENNIAL RYEGRASS	PNEUMATIC	BATCH-TYPE SEPARATOR DECK-PERF. CU,	GOOD		72	97	THE BEST APPROACH TO REMOVING RYEGRASS FROM FESCUE, BUT THE MAXIMUM CONTAMINANT SEED LEVEL OF .5% AS REQUIRED FOR CERTIFICATION IS UNATTAINABLE WITHOUT SIGNIFICANT CROPLOSS.
					PERENNE,	PERENNIAL, ANNUAL			SIDESLOPE=9.5, BACKSLOPE=1.0,					
				LOLIUM	MULTIFLORUM	RYEGRASS		GRAVITY	AIR=3, SPEED=725	FAIR		80	97	EDACHTONG FROM MUR. SPOYE
808	FESTUCA	ARUNDINACEA	TALL FESCUE	LOLIUM		PENNFINE RYEGRASS	REMOVE PENNFINE RYEGRASS	SCREEN	SEQ.6X20 SLOTTED SCREEN	GOOD				FRACTIONS FROM THE ABOVE SCREENING/INDENT CYLINDER SEQUENCE WERE SENT TO SUBMITTER FOR PURITY TESTS.
								INDENT						
-				LOLIUM		PENNFINE RYEGRASS		CYLINDER	#16 INDENT CYLINDER	GOOD			MEASUREMENTS OF THE TWO SEEDS	
820	FESTUCA	ARUNDINACEA	TALL FESCUE	LOLIUM	MULTIFLORUM	ANNUAL RYEGRASS	REMOVE ANNUAL RYEGRASS	VELVET ROLL	3 PASSES	POOR	90	38	OVERLAP IN ALL DIMENSIONS. THE FESCUE APPEARS SLIGHTLY ROUGHER IN TEXTURE THAN THE	POOR RESULTS WITH THE VELVET ROLLS.
							REMOVE ANNUAL RYEGRASS TO 270 OR							
1002	FESTUCA	ARUNDINACEA	TURF TYPE TALL FESCUE	LOLIUM	MULTIFLORUM	ANNUAL RYEGRASS	LESS /LB. INTITAL IS 570/LB	VELVET ROLL	200 RPM	FAIR	100	50		
1002	LUITOCA	INCINDINACEA	TABL FEOCUE	LOLIUM		ANNUAL RYEGRASS	10 3707111	GRAVITY	200 RFF	FAIR				
				LOLIUM	MULTIFLORUM	ANNUAL RYEGRASS			#54 FILTER	FAIR				
1143	FESTUCA	ARUNDINACEA	TURF TYPE TALL FESCUE	LOLIUM	MULTIFLORUM MULTIFLORUM	ANNUAL RYEGRASS ANNUAL RYEGRASS	REMOVE ANNUAL RYEGRASS	GRAVITY SCREENS	WESTRUP,550RPM,SSLOP E2.5,BSLOPE4 HAND SHAKING	POOR	65		THE MIXTURE IS CURRENTLY 35% RYEGRASS AND 65% FESCUE AND THE DESIRED MIX IS 15	
		1	1	POPTOW	IMOPITE POKOM	ANNUAL KIEGKASS	1	DCKEENS	DANU SHAKING	POOR	65	50	וכט	1

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR	FP NOTES	CONCLUSION
								SSS,CU DECK,565RPM,SSLOPE1.					
								5,BSLOPE FLAT,AIR					
			LOLIUM	MULTIFLORUM MULTIFLORUM	ANNUAL RYEGRASS ANNUAL RYEGRASS		GRAVITY VELVET ROLL	HIGH 12.5 DEG, 125 RPM	POOR	65	50	65	
			LODIO!	NODITI DORON	THROTE REPORTED		VBBVBT RODE	12.5 2207 125 101	TOOK				RYEGRASS COUNT INCREASED IN THE FINAL
										178		THIS WAS A SMALL LOT OF 267 BREEDER SEED FOR A FIELD	PURITY CHECK. AS MOST OF THE OPERATIONAL LOSSES WERE IN THE LOW
1192 FESTUCA	ARUNDINACEA	TALL FESCUE			RYEGRASS		GRAVITY		POOR	/#		/# TRIAL. INITIAL	SIDE AND THE HIGH
			LOLIUM		RYEGRASS		INDENT CYLINDER	LIFTED SMALL	POOR			100	
			AGROSTIS		BENTGRASS		GRAVITY		POOR			100	
			AGROSTIS		BENTGRASS		INDENT CYLINDER	LIFTED SMALL BENTGRASS	BEST	89/		0	
			AGROSTIS		BENTGRASS		CIBINDER	BENTGRASS	DEST			•	THREE FRACTIONS WERE OBTAINED FROM
													EACH OF FOUR DIFFERENT SEPARATION TRIALS; BOUNCE PLATE, PNEUMATIC
													SEPARATOR, SLOTTED SCREENS AND ROUND-
						REMOVE PERENNIAL						MATERIAL HAD BEEN PROCESSED OVER AIR-SCREEN AND CONTAINED	HOLE SCREENS. PURITY ANALYSES WERE NOT DONE, BUT FRACTIONS WERE SENT TO
659 FESTUCA	ARUNDINACEA	TALL FESCUE	POA	PERENNE	PERENNIAL RYEGRASS	RYEGRASS						3% RYEGRASS.	SUBMITTER FOR EVALUATION.
								1 /00 POTENT WOLD ON					7 GRAMS OF MIXTURE WAS PLACED ON THE
773 FESTUCA	ARUNDINACEA	TALL FESCUE	POA	PRATENSIS	KENTUCKY BLUEGRASS	REMOVE KENTUCKY BLUEGRASS	SCREEN	1/22 ROUND-HOLE ON VIBRATOR					SCREEN. THE FRACTION THAT WENT THROUGH CONTAINED 3 BLUEGRASS SEEDS.
													WITH THE AIR SCREEN MACHINE, 88.9% OF
						REMOVE RATTAIL							THE ORIGINAL LOT WAS RECLAIMED AT A PURITY OF 99%. ALTHOUGH RATTAIL
						FESCUE, HAIRY CHESS,		SEQ.1/14 RD W/3 DAMS					FESCUE AND HAIRY CHESS DROPPED
53 FESTUCA	ARUNDINACEA	ALTA FESCUE	VIII.PTA	MYUROS	RATTAIL FESCUE	SHEEP SORREL AND RYEGRASS.	AIR-SCREEN	OVER 4X22 MESH, SHAKE-440	GOOD	97	90	99	SIGNIFICANTLY, THE SORREL DID NOT. THE INDENT DISC WAS FOUND T
			RUMEX	ACETOSELLA	SHEEP SORREL		INDENT DISC	SEQ.V4 1/2 DISC	GOOD				
						SUBMITTER REQUESTED MEASUREMENTS ON							
						SAMPLE OF FESCUE							MEASUREMENTS WERE MADE AND VERY
776 FESTUCA	ARUNDINACEA	TALL FESCUE				CONTAMINATED WITH RYEGRASS.							LITTLE DIFFERENCE IN DIMENSION WAS FOUND.
	ARUNDINACEA	TALL FESCUE				RIEGRASS.							FOUND.
1215 FESTUCA	ARUNDINACEA	TURF TYPE TALL FESCUE											
1261 FESTUCA	CALIFORNICA	TABL FESCUE											
874 FESTUCA	FELOPA	FESCUE	ERGOT		ERGOT ERGOT	REMOVE ERGOT	BELT THRESHER GRAVITY	SEQ.		0			SAMPLE WA
1262 FESTUCA	IDAHOENSIS		ERGOI		ERGOI		GRAVIII	SEQ.		0			
1229 FESTUCA	LONGIFOLIA	HARD FESCUE	POA	ANNUA	ANNUAL BLURGRASS	REMOVE ANNUAL BLUEGRASS	INDENT CYLINDER	3.32MM	GOOD	21/ LB		INITIAL LEVEL WAS ONLY 21/LB SO NO BURGERAS COULD BE FOUND IN THE ORIGINAL MATERIAL. RUNNING THE MATERIAL ON A 3.25MM INDENT CYLINDER AND EXAMINING THE LIFTED FRACTION REVELADED SEV	USE A 4.00MM INDENT CYLINDER TO REMOVE POA ANNUA FORM HARD FESCUE.
1223 12010011	DONOTI ODIII	mad radeda				DEGEGGGG	INDENT			21/		BITTED TREETION REVERIES OF	REMOVE FOR TAXABLE FORCE.
			POA	ANNUA	ANNUAL BLUEGRASS		CYLINDER	4.00MM	GOOD	LB			
						REMOVE DOUBLES,							THE SHEEP FESCUE WAS SATISFACTORILY CLEANED USING THE SEQUENCE OF:
						MULTIPLES AND		SEQ.GRADER: #6 1/2					PRECISION GRADER, BELT THRESHER AND
777 FESTUCA	OVINA	SHEEP FESCUE	FESTUCA		OVINA	EMPTIES	OTHER	RD HOLE				SUBMITTER CONDUCTED TESTS. THREE VARITIES OF SHEEP	PNEUMATIC SEPARATOR.
												FESCUE WERE SCREENED TO	
1158 FESTUCA	OVINA	SHEEP FESCUE (3 VARS)	FESTUCA	OVINA	FIELD RUN SHEEP FESCUE		BELT THRESHER	SEO.				DETERMINE PROPER SCREEN SIZES.	
					FIELD RUN SHEEP			SEQ 5-1/2 TO 6 RH					
			FESTUCA	OVINA	FESCUE		PNEUMATIC	BOTTOM				THIS WAS A SAMPLE TO BE SENT	
							INDENT					TO AUSTRALIA. SOIL, MOSTLY STONES, HAD TO BE REMOVED COMPLETELY. THE LIFTED FRACTION CONTAINED THE	USE 2.75 MM TO REMOVE SOIL PARTICLES
1046 FESTUCA	OVINA	SHEEP FESCUE	INERT		SOIL	REMOVE SOIL	CYLINDER	2.75 MM	GOOD	0	100	0 WEED SEED.	FROM SHEEP FESCUE.
		RED CREEPING						1/21 RD W/3 METAL					THE AIR-SCREEN MACHINE REMOVED ALL OF THE QUACKGRASS FROM THE FESCUE, BUT
87 FESTUCA	RUBRA	FESCUE	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS.	AIR-SCREEN	DAMS W/ S METAL			100	100	WITH A FAIRLY LARGE CROP LOSS.
													THE 1/21 SCREEN HELD NEARLY ALL QUACKGRASS AND CROP DOUBLES, AND THE
		CREEPING RED											4X26 DROPPED THE REST OF THE
292 FESTUCA	RUBRA	FESCUE	AGROPYRON AGROPYRON	REPENS REPENS	QUACKGRASS QUACKGRASS	REMOVE QUACKGRASS	SCREENS PNEUMATIC	1/21 OVER 4X26 SLOT	GOOD POOR		100	100	QUACKGRASS.
1			AGROPYRON	REPENS	QUACKGRASS		VIBRATORY		POOR				
	1	CREEPING RED FESCUE	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	SCREENS	SEQ.1/22 W/DAMS OVER 6X26	GOOD				THE RECOMMENDATION IS
230 PECTUCA	DIIDDA			ICEF EIVO	QUACIGICADD	REMOVE QUACKGRADD	DCREENS	SEO.6X24, FRACT OVER					THE RECOMMENDATION IS
330 FESTUCA	RUBRA	120002											
330 FESTUCA	RUBRA	1 25002	AGROPYRON	REPENS	QUACKGRASS		SCREEN	1/22	GOOD				
330 FESTUCA	RUBRA	T BSCOB	AGROPYRON AGROPYRON	REPENS	QUACKGRASS QUACKGRASS		SCREEN SCREEN	1/22 SEQ.6X25, FRACT OVER 6X26	GOOD				
330 FESTUCA	RUBRA	120001				REMOVE QUACKGRASS		SEQ.6X25, FRACT OVER					
		CREEPING RED	AGROPYRON	REPENS	QUACKGRASS	FROM LOT WHICH HAD ALREADY BEEN THROUGH	SCREEN	SEQ.6X25, FRACT OVER 6X26					
330 FESTUCA 338 FESTUCA	RUBRA					FROM LOT WHICH HAD		SEQ.6X25, FRACT OVER			100		SEV

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP C	R F	P NOTES	CONCLUSION
			AGROPYRON	REPENS	QUACKGRASS		PNEUMATIC		GOOD	1	00 1		
373 FESTUCA	RUBRA	FINE FESCUE	ANTHOXANTHUM	ODORATUM	SWEET VERNALGRASS	REMOVE SWEET VERNALGRASS						FESCUE MEASUREMENTS INCLUDE AWNS. SWEET VERNALGRASS MEASUREMENTS DO NOT INCLUDE AWNS.	MEASUREMENTS ONLY.
858 FESTUCA	RUBRA	FINE FESCUE	ANTHETECHE	SCANDICINA	BUR BEAKCHERVIL	REMOVE BUR CHERVIL	GRAVITY	PERF METAL DECK, AIR=2.25, F=575, SDSL=9, BKSL=2.75	GOOD	100		SCREENS AND INDENT CYLINDERS WERE INEFFECTIVE.	BUR CHERVIL MAY BE REMOVED FROM FINE FESCUE BY GRAVITY TABLE OR AIR SEPARATION.
030 FEBTOCA	KODKA	FINE PESCOE	ANTINCIBCOD	BCANDICINA	DOK BEAKCHEKVIE	REMOVE BOR CHERVIE	PNEUMATIC	6X6	GOOD	100	50	WERE INEFFECTIVE.	DEFAICATION.
													BOTH THE AIR-SEPARATOR AND PNEUMATIC
22 FESTUCA	RUBRA	CREEPING RED FESCUE	BROMUS	SECALINUS	CHESS	REMOVE CHESS.	AIR-SCREEN	1/12 TOP, #5 BOTTOM SCREEN	FAIR		1	00	SEPARATOR MADE GOOD SEPARATIONS, BUT WITH LARGE CROP LOSS.
22 FE310CA	RUBRA	FESCUE	BROMUS	SECALINUS	CHESS	REMOVE CRESS.	PNEUMATIC	SCREEN	FAIR		1		WITH LARGE CROP LOSS.
													THE BEST SEPARATION WAS WITH THE AIR- SCREEN MACHINE. STILL 50% OF THE
89 FESTUCA	RUBRA	FINE FESCUE	BROMIIS	RIGIDUS	RIPGUT	REMOVE RIPGUT AND OTHER CONTAMINANTS	AIR-SCREEN	1/16 W/3 DAMS OVER 4X26	FAIR	43		74	CROP WAS LOST AND THE FINAL PURITY WAS 74%.
								V6 DISC W/CHUTES EXTENDED BY AL					THE V6 INDENT DISC REMOVED ALL CHEAT WITH AN UNDETERMINED CROP LOSS. THE AIR-SCREEN MACHINE WITH 1/24 SCREEN SALVAGED 77% OF THE LOT WITH 99
91 FESTUCA	RUBRA	FINE FESCUE	BROMUS	SECALINUS	CHEAT	REMOVE CHEAT.	INDENT DISC	STRIPS 1/24 SCREEN W/2 1/8"		1	00 1	00	CHEAT/LB REMAINING.
			BROMUS	SECALINUS	CHEAT		AIR-SCREEN	DAMS					
			BROMUS BROMUS	SECALINUS SECALINUS	CHEAT		PNEUMATIC ELECTROSTATIC		POOR				
			Ditorios	DECIDENCE	CHEST		BBBCTROBTITIO		10010				RECOMMENDED PROCEDURE IS TO SCREEN
412 FESTUCA	RUBRA	RED FESCUE	BROMUS	SECALINUS	CHESS	REMOVE CHESS	GRAVITY		GOOD			SEED MEASUREMENTS INDICATE THAT A 1/25* ROUND-HOLE SCREEN SHOULD REMOVE 92% OF THE CHESS ALONG WITH 44% OF THE FESCUE. THIS SAMPLE CONTAINED 0.67%	THE LOT WITH A 1/25 ROUND-HOLE SCREEN. THEN RUN THE HELD FRACTION ON THE GRAVITY TABLE TO SALVAGE MORE FESCUE. IF THE DROPPED FRACTION SHOWS EXCESSIVE CHESS, IT CAN BE RUN OVER GRAVITY TABLE, ALSO.
1171 FESTUCA	RUBRA	FINE FESCUE	ERGOT		ERGOT	REMOVE ERGOT	PNEUMATIC	SDB	GOOD	0.7	90 0	ERGOT. EXPORT TO JAPAN REQUIRES 0.05% OR LESS. PNEUMATIC SEPARATION REMOVED A MAJORITY OT THE ERGOT BY 1. LIFTIN	USE PNEUMATIC SEPARATOR TO LIFT THE CROP AWAY FROM A MAJORITY OF THE ERGOT.
			ERGOT		ERGOT		DEBEARDER	SEQ1. LAH W/#14WW					
			ERGOT		ERGOT		SCREEN	SEQ1. 0.70MM SLOT					
			ERGOT		ERGOT		PNEUMATIC	SEQ1. SDB ON BOTH SPLITS FROM AIR					
1100 FESTUCA	RUBRA	FINE FESCUE	FESTUCA	RUBRA	FINE FESCUE DOUBLES	DETERMINE TOP SCREEN SIZES TO REMOVE DOUBLES FROM FINE AND TALL FESCUE AND PERENNIAL RYEGRASS	SCREEN	8RH,2X10 3X12, 4X14, 3/64X5/16, 1/22X1/2				THIS WAS A TELEPHONE REQUEST FOR INFORMATION ON SCREENS TO REMOVE DOUBLES FROM SMALL SAMPLES OF THESE GRASSES. RESULTS WERE FROM THE MANUFACTURERS RECCOMENDATIONS.	
1121 FESTUCA	RUBRA	CHEWINGS FESCUE	INERT INERT		INERT	DETERMINE CLEANING SEQUENCE	SCREEN PNEUMATIC	SEQ 8/64 RH,4X30 WW	GOOD			THIS WAS FIELD-RUN MATERIAL THAT WAS 30-40% INERT. A SEQUENCE OF THE ABOVE MACHINES REMOVED MOST OF THE CONTAMINANT LEAVING 67% OF THE ORIGINAL WIEGHT APPROXIMATELY 99% PURE.	USE A SEQUENCE OF 8/64 RH, 4X30 WW, AIR AND 8 MM INDENT CYLINDER TO REMOVE INERT MATERIAL FROM CHEWINGS FESCUE.
			INDICI		INDICI		INDENT	DEQ	GOOD				
			INERT		INERT		CYLINDER	SEQ 8 MM	GOOD				
65 FESTUCA	RUBRA	RED CREEPING FESCUE	LOLIUM VULPIA	MYUROS	RYEGRASS RATTAIL FESCUE	REMOVE RYEGRASS, RATTAIL FESCUE AND HAIRY CHESS.	AIR-SCREEN ELECTROSTATIC	1/19 OVER 6X26	FAIR POOR	53	66	92	SEPARATING RESULTS FOR THIS SAMPLE WERE UNSATISFACTORY. THE BEST THAT COULD BE DONE WAS TO SALVAGE 43% OF THE LOT AT A PURITY OF 82% ON THE AIR-SCREEN MACHINE. PART OF THE PROBLEM WAS THE SIZE OVERLAP OF THE RYEGRASS AND THE CREEPING FESCUE.
			BROMUS	COMUTATUS	HAIRY CHESS		VIBRATORY		POOR				
93 FESTUCA	RUBRA	CREEPING RED	LOLIUM		RYEGRASS	REDUCE RYEGRASS AND, POSSIBLY, RATTAIL FESCUE.	PNEUMATIC	1 (2) POINT	POOR			RYEGRASS CONCENTRATION WAS ORIGINALLY 0.90% AND RATTAIL FESCUE CONCENTRATION WAS 130/LB.	BEST RESULTS WITH THE AIR-SCREEN MACHINE. 70% OF THE SAMPLE WAS RECOVERED AT 99.6% PURITY. RYEGRASS WAS REDUCED TO .4% AND FESCUE TO 103/LB.
			LOLIUM		RYEGRASS		SCREEN	1/21 ROUND HOLE 1/21 W/DAMS OVER	GOOD	-	-		
			LOLIUM		RYEGRASS		AIR-SCREEN	6X26 W/DAMS OVER	GOOD	99	50 1	00	
803 FESTUCA	RUBRA	CHEWINGS FESCUE	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE ANNUAL BLUEGRASS	INDENT CYLINDER INDENT	#8	GOOD			GRAVITY TABLE AND AIR COLUMN WERE INEFFECTIVE FOR THIS SEPARATION.	A V5 AND V5 1/2 INDENT DISCS AND #7 AND #8 INDENT CYLINDERS GAVE THE BEST SEPARATION OF ANNUAL BLUEGRASS FROM CHEWINGS FESCUE.
							CYLINDER	#7	GOOD	95			
							INDENT DISC	V5	GOOD	95	98 1	00	
		-					INDENT DISC	V5 1/2	GOOD	95 1	00 1	00	THE 4MM INDENT CYLINDER REMOVED ALL
962 FESTUCA	RUBRA	RED FESCUE	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE ANNUAL BLUEGRASS. REMOVE ANNUAL BLUEGRASS TO 0/LB	INDENT CYLINDER	4 MM CYLINDER	GOOD	1	00 1	THIS SEPARATION APPEARED	THE 4MM INDENT CYLINDER REMOVED ALL ANNUAL BLUEGRASS FROM THE FESCUE. ORIGINAL LOT HAD 15 BLUEGRASS/LB.
1001 FESTUCA	RUBRA	FINE FESCUE	POA	ANNUA	ANNUAL BLUEGRASS	INITIAL QUANTITY IS 15/LB	INDENT CYLINDER	4MM POCKET	GOOD	1	00	COMPLETE WITH MINIMAL CROP LOSS	INDENT CYLINGER WITH 4 MM POCKET REMOVED ALL POA ANNUA IN EXAMINATION

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FF	NOTES	CONCLUSION
												THIS WAS TWO LOTS OF FINE FESCUE WITH MANY SPECIES OF WEED SEEDS. A 3.75 MM INDENT CYLINDER REMOVED MANY OF	
						REMOVE ANNUAL AND	INDENT			45/	0.0	THESE INCLUDING THE POA SPP.	
1135 FESTUCA	RUBRA	FINE FESCUE	POA	ANNUA	ANNUAL BLUEGRASS	KENTUCKY BLUEGRASSES FROM FINE FESCUE	CYLINDER	3.75 MM POCKET	GOOD			L COMMON CHICKWEED, B WILDBUCKWHEAT, SHEEPSORREL	
							INDENT			15/	0 /		
			POA	PRATENSIS	KENTUCKY BLUEGRASS		CYLINDER	3.75 MM POCKET	GOOD	LB 10	0 :	В	BEST SEPARATION OBTAINED WITH THE AIR
						REMOVE RATTAIL		#7 RD HOLE OVER 6X28					SCREEN MACHINE USING #7 ROUND HOLE OVER A 6X28 WIRE MESH. IN ALL THE TRIALS, THE BOTTOM SCREEN TENDED TO CLOG UP AND SEEDS IN THE FEED HOPPER
80 FESTUCA	RUBRA	FINE FESCUE	VULPIA	MYUROS	RATTAIL FESCUE	FESCUE.	AIR-SCREEN	WIRE W/DAMS	GOOD	82 9	9 9	9	TENDED TO BRIDGE.
			VULPIA	MYUROS	RATTAIL FESCUE		ELECTROSTATIC	19KV, ROT=3, HOR=6- 1/2, VERT=9-1/4	FAIR	82	9	_	
			VULPIA	MYUROS	RATTAIL FESCUE		PNEUMATIC	1/2, VER1-9-1/4	POOR	0.2	1	9	
			VULPIA	MYUROS	RATTAIL FESCUE		VELVET ROLL		POOR				
			VULPIA	MYUROS	RATTAIL FESCUE	REMOVE RATTAIL	VIBRATORY		POOR				BEST RESULTS WITH AIR-SCREEN MACHINE,
96 FESTUCA	RUBRA	CREEPING RED	VULPIA	MYUROS	RATTAIL FESCUE	FESCUE AND BLUEGRASS FROM FESCUE SEEDS AND GROATS.	AIR-SCREEN	1/12 W/DAMS OVER 4X32, LOW AIR	GOOD	98 8	5 9	9	yielding 71% OF ORIGINAL SAMPLE AT 99.4% PURITY. 75% OF THE CONTAMINANTS WERE REMOVED.
								1/12 W/DAMS OVER					
			POA		BLUEGRASS		AIR-SCREEN	4X32, LOW AIR AV3-1/2 AND AV4-1/2	GOOD	98 8	0 9	9	
			VULPIA	MYUROS	RATTAIL FESCUE		INDENT DISC	DISCS	POOR				
			POA		n			AV3-1/2 AND AV4-1/2	POOR				
		CREEPING RED	POA		BLUEGRASS	REMOVE RATTAIL	INDENT DISC	#7 ROUND OVER 6X26	POOR				THE AIR-SCREEN MACHINE MADE A GOOD SEPARATION. ALTHOUGH OTHER MACHINES WERE NOT TRIED, LENGTH MEASUREMENTS INDICATE THAT AN INDENT CYLINDER WITH A HOLE .310 DIAM AND .024 DEPTH SHOULD REJECT ALK RATTAIL FESCUE AND
162 FESTUCA	RUBRA	FESCUE	VULPIA	MYUROS	RATTAIL FESCUE	FESCUE	AIR-SCREEN	W/DAMS	GOOD	90	9	8	RECOVER ABOUT 85% OF THE RED FESCUE.
			VULPIA	MYUROS	RATTAIL FESCUE		AIR-SCREEN	#7 ROUND OVER 6X28 W/DAMS, NO AIR	GOOD	90	9		
						REMOVE RATTAIL							RECOMMENDED PROCEDURE IS TO USE A 4X22 WIRE SCREEN WHICH SHOULD SCALP OFF ABOUT 40% OF THE FESCUE FREE OF RATTAIL. THEN RUN THE THROUGH FRACTION OVER THE V6 INDENT DISC AND THE 6X25 SCREEN TO SALVAGE MORE
407 FESTUCA	RUBRA	MYUROS	VULPIA VULPIA	MYUROS MYUROS	RATTAIL FESCUE	FESCUE	INDENT DISC SCREEN	SEQ.V6 DISC SEQ.6X25	FAIR FAIR		10	0	FESCUE.
			VULPIA	MYUROS	RATTAIL FESCUE		VIBRATORY	SEQ. 6A25	POOR		10	0	
1225 FESTUCA	RUBRA	FINE FESCUE				BREAK MULTIPLE FLORETTS						THIS IS WORK WITH BREEDER SEED SO SMALL LOTS ARE THE RULE.	
82 FESTUCA	RUBRA COMMUTATA	CHEWINGS FESCUE	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS.	AIR-SCREEN	1/23 RD HOLE W/3 DAMS	GOOD	100 10	0 10	0	BEST RESULTS WITH THE AIR-SCREEN MACHINE WITH A 1/23 ROUND HOLE TOP SCREEN WITH 3 DAMS. NO BOTTOM SCREEN WAS USED. 88% OF THE FESCUE WAS RECLAIMED WITH ALL QUACKGRASS REMOVED.
			AGROPYRON	REPENS	QUACKGRASS		VIBRATORY	1/23 RD HOLE HAND	POOR				
			AGROPYRON	REPENS	QUACKGRASS		SCREEN	SCREEN	GOOD	100 10	0 10	0	
85 FESTUCA	RUBRA COMMUTATA	CHEWINGS FESCUE	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS AND REDUCE RYEGRASS AND ORCHARDGRASS TO ABOUT 0.5% COMBINED.	AIR-SCREEN	1/20 SCREEN W/3 DAMS	GOOD	10	0 10	0	A 1/21 SCREEN ON THE AIR-SCREEN MACHINE PERFORMED VERY WELL, REMOVING ALL QUACKGRASS AND REDUCING RYEGRASS AND ORCHARDGRASS TO A COMBINED .15%. 97.3% OF THE CROP WAS SALVAGED AT 99.6% PURITY.
			LOLIUM		RYEGRASS		AIR-SCREEN	1/20 SCREEN W/3 DAMS	POOR		0 10	0	
			DACTYLIS AGROPYRON	GLOMERATA REPENS	ORCHARDGRASS QUACKGRASS		AIR-SCREEN ELECTROSTATIC	1/20 SCREEN W/3 DAMS	GOOD POOR	5	0 10	U	
				REPENS	QUACKGRASS		VIBRATORY		POOR				
	RUBRA	CHEWINGS											THE 1/21 ROUND-HOLE AND 6X21 SCREENS BOTH DID VERY WELL. THE 1/21 SCREEN REMOVE ALL OATS AND THE 6X21 ALLOWED ONLY ONE OAT GROAT TO GO THROUGH. IT IS RECOMMENDED TO USE DAMS WITH THE
427 FESTUCA	COMMUTATA	FESCUE	AVENA	FATUA	WILD OATS	REMOVE WILD OATS.	SCREEN	6X21	GOOD				ROUND-HOLE SCREEN.
182 FESTUCA	RUBRA COMMUTATA	CHEWINGS FESCUE	DACTYLIS	FATUA	WILD OATS ORCHARDGRASS	REMOVE ORCHARDGRASS	SCREEN	1/21 ROUND-HOLE FINE SANDPAPER DECK	GOOD		7 9	LENGTH SEPARATIONS WERE NOT TRIED BECAUSE OF CONSIDERABLE 9 OVERLAP IN SEED DIMENSIONS.	BEST RESULTS WERE WITH SCREENS. A 99.7% PURE SAMPLE WAS OBTAINED WITH 10% LOSS. A PURER SAMPLE COULD BE OBTAINED, BUT WITH A HIGHER LOSS. MUCH OF THE SEED DISCARDED FROM THE SCREENS WAS DOUBLES AND PARTS OF SEEDS HANGING ON THE RACHILLAS.
			DACTYLIS	GLOMERATA	ORCHARDGRASS		SCREEN	6X23	GOOD	98 8	3 10	0	
	1	1	DACTYLIS	GLOMERATA	ORCHARDGRASS	I	SCREEN	6X24	GOOD	98 8	8 10	01	
			DACTYLIS	ORCHARDGRASS	ORCHARDGRASS		SCREEN	6X25	GOOD				

			CROP COMMON	CONTAMINANT	CONTAMINANT	CONTAMINANT COMMON				QUALI				
NO	CROP GENUS	CROP SPECIES	NAME	GENUS	SPECIES	NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	TY	IP	CR FI	NOTES	CONCLUSION
188	FESTUCA	RUBRA COMMUTATA	CHEWINGS FESCUE	FESTUCA	ARUNDINACEA	TALL FESCUE	REMOVE TALL FESCUE FROM CHEWINGS FESCUE (SINGLES AND DOUBLES).	SCREEN	1/19 ROUND HOLE W/DAMS	FAIR	79	91 9	7	WITH THIS SAMPLE, NO GOOD METHOD WAS FOUND TO MAKE THE SEPARATION AND STILL SAVE THE CHEWINGS FESCUE DOUBLES. A 1/19 SCREEN WORKED THE BEST, BUT THE 19% CROP LOST CONSISTED ENTIRELY OF DOUBLES.
				FESTUCA	ARUNDINACEA	TALL FESCUE		PNEUMATIC		POOR		-		
				FESTUCA	ARUNDINACEA	TALL FESCUE		VELVET ROLL		POOR				
				FESTUCA	ARUNDINACEA	TALL FESCUE		ELECTROSTATIC		POOR				THE AIR SCREEN MACHINE DID A GOOD JOB
		RUBRA	CHEWINGS						1/25 ROUND HOLE, NO					OF THIS SEPARATION USING A 1/25 RD HOLE SCREEN WITH NO AIR OR A 1/24
75	FESTUCA	COMMUTATA	FESCUE	HOLCUS		VELVETGRASS	REMOVE VELVET GRASS.	AIR-SCREEN	AIR 1/24 ROUND HOLE,					ROUND HOLE SCREEN WITH AIR.
				HOLCUS	LANATUS	VELVETGRASS		AIR-SCREEN	W/AIR	GOOD				
		RUBRA	CHEWINGS				REDUCE INERT MATERIAL, MUCH OF WHICH IS ERGOTIZED		1/20 W/DAMS OVER					THE AIR-SCREEN MACHINE INCREASED FESCUE PURITY SLIGHTLY AND SMALL REDUCTIONS WERE MADE IN INERT,
84	FESTUCA	COMMUTATA	FESCUE	INERT		INERT	SEED.	AIR-SCREEN	6X28 W/DAMS		96	70 9	В	RYEGRASS, AND WEED CONTENT.
		RUBRA	CHEWINGS				REDUCE INERT TO ABOUT 1.0% AND CROP AND WEED CONTENT TO .50%. HOWEVER, ACCORDING TO OUR ANALYSIS, THE LOT ALREADY MEETS THESE		20X20 W/DAMS OVER					
86	FESTUCA	COMMUTATA	FESCUE	INERT		INERT	PURITY REQUIREMENTS.	AIR-SCREEN	24X24	GOOD	98	30 9	9	BEST
									20X20 W/DAMS OVER					
\vdash		-		DACTYLIS	GLOMERATA	ORCHARDGRASS		AIR-SCREEN	24X24 20X20 W/DAMS OVER	GOOD	98	60 9	9	
		RUBRA	CHEWINGS	LOLIUM		RYEGRASS	REDUCE RYEGRASS TO	AIR-SCREEN	24X24 1/25 ROUND HOLE	GOOD	98	98 9	9	
81	FESTUCA	COMMUTATA	FESCUE	LOLIUM		RYEGRASS	.50%.	AIR-SCREEN	W/DAMS	GOOD	87	97 10	0	BEST RESULTS WERE HAD WITH
\vdash				LOLIUM		RYEGRASS		PNEUMATIC		POOR				
				LOLIUM		RYEGRASS	REDUCE RYEGRASS TO	VIBRATORY		POOR				A 20X20 SCREEN ON THE AIR-SCREEN
		RUBRA	CHEWINGS				0.5% AND INCREASE FESCUE PURITY TO		20X20 TOP SCREEN					MACHINE MET THE REQUIREMENTS BY YIELDING A 99.9% PURE FESCUE SAMPLE
83	FESTUCA	COMMUTATA	FESCUE	LOLIUM		RYEGRASS	98%. DETERMINE SCREEN	AIR-SCREEN	W/DAMS, 7/16" STROKE	GOOD	96	97 10	0	WITH .12% RYEGRASS.
557	FESTUCA	RUBRA COMMUTATA	CHEWINGS FESCUE (BREEDER)	RUMEX RUMEX		DOCK SORREL	DOCK, SORREL, ORCHARD GRASS, BLUEGRASS, RYEGRASS, BENTGRASS AND RATTAIL FESCUE.	SCREENS	6X24 TOP, 6X28 BOTTOM W/DAMS					A 6X24 TOP SCREEN AND A 6X28 BOTTOM SCREENS WITH DAMS REMOVED MOST OF THE CONTAMINANTS EXCEPT THE BLUEGRASS.
				DACTYLIS	GLOMERATA	ORCHARDGRASS								
				POA LOLIUM		BLUEGRASS RYEGRASS								
				AGROSTIS		BENTGRASS								
				VULPIA	MYUROS	RATTAIL FESCUE								
61	FESTUCA	RUBRA COMMUTATA	CHEWINGS FESCUE	VULPIA	MYUROS	RATTAIL FESCUE	REMOVE RATTAIL FESCUE, RYEGRASS AND OTHER WEED SEEDS. REDUCE RATTAIL	AIR-SCREEN	#6 OVER 6X28	GOOD	88	75 9	BOTH SCREENS TENDED TO PLUG UP AND NEEDED TO BE BRUSHED 7 CLEAN.	THE AIR-SCREEN MACHINE WAS ABLE TO RECOVER 83% OF THE ORIGINAL MATERIAL AT 97% PURITY. LATER TRIALS INDICATE THAT RYEGRASS CAN BE FURTHER REDUCED BY ANOTHER SEPARATION USING A 1/18 SCREEN.
		RUBRA	CHEWINGS				FESCUE, ORCHARDGRASS, BLUEGRASS AND VELVETGRASS. ORIGINAL SAMPLE CONTAINED 930/LB, 1116/LB, 930/LB AND		VARIOUS SCREENS, 360				PNEUMATIC SEPARATION WAS INEFFECTIVE. 3 CLIPPER SETUPS WERE USED: #1. 4X22 OVER 4X28,#2. 4X24 OVER 6X28,	THE AIR-SCREEN MACHINE WORKED VERY WELL ON THIS MIXTURE. THE SPECIFIC SCREENS USED DEPOND ON WHICH IMPURITIES IT IS MOST DESIRED TO
94	FESTUCA	COMMUTATA	FESCUE	VULPIA DACTYLIS	MYUROS GLOMERATA	RATTAIL FESCUE ORCHARDGRASS	744/LB RESPECTIVELY.	AIR-SCREEN	RPM, 5/8" STROKE	GOOD	99		#3. 4X24 OVER 4X28	REMOVE.
				POA		BLUEGRASS		AIR-SCREEN		GOOD	99			
				HOLCUS		LANATUS		AIR-SCREEN		GOOD				
527	FESTUCA	RUBRA COMUTATA	CHEWINGS FESCUE	BROMUS	TECTORUM	DOWNEY CHESS	REMOVE DOWNEY CHESS AND BULBOUS BLUEGRASS.	AIR-SCREEN	SEQ.1/20 OVER 1/21	GOOD				MATERIAL HELD ON THE 1/20 SCREEN WAS RUN THROUGH THE PNEUMATIC SEPARATOR AND MATERIAL THROUGH THE 1/21 SCREEN WAS RUN ON THE INDENT. IN THIS WAY, 94% OF THE LOT WAS SAVED AS CLEAN FESCUE.
								PNEUMATIC	SEQ.	GOOD				
				POA	BULBOSA	BULBOUS BLUEGRASS		INDENT CYLINDER	SEQ.#7 CYLINDER	GOOD			INCLINED DRAPER, SCREENS,	
689	FESTUCA	RUBRA COMUTATA	CHEWINGS FESCUE	INERT		INERT	REMOVE DIRT CLODS AND LEGHT TRASHY SEED	GRAVITY	END SLOPE=10, AIR=5, FORWARD SLOPE=3				INCLINED DRAPER, SCREENS, FRICTION, AND VIBRATOR SEPARATORS SHOWED LIMITED SUCCESS.	THE SPECIFIC GRAVITY SEPARATOR PERFORMED THE SEPARATION VERY WELL WITH MINIMAL SEED LOSS.
009	2010CA	COMOTATA	2 20002	LIVERCE		LIVERY I		CHATTI	- CAMBARD GROPE-3				DOCCEDO.	GOOD RESULTS WERE OBTAINED ON A TWO-
460	PPOTIIO3	RUBRA COMUTATA	CHEWINGS FESCUE	VULPIA	MYUROS	RATTAIL FESCUE	REMOVE RATTAIL FESCUE	AIR-SCREEN	TOP-#6 RD, BOT-6X26 W/DAMS	GOOD				SCREEN CLEANER. THE TOP SCREEN WAS A #6 ROUND-HOLE AND THE BOTTOM SCREEN WAS A 6X26 WIRE WITH 1/8*HIGH DAMS.
	FESTUCA						REMOVE RATTAIL			GOOD	196		THIS SAMPLE REPRESENTED 6000 LBS OF REGISTERED SEED. TESTED LEVEL OF RATTAIL	NAD A UAZU WIRE WITH 1/0"HIGH DAMS.
1222	FESTUCA	TRACHEPHYLLA	HARD FESCUE	VULPIA	MYUROS	RATTAIL FESCUE	FESCUE	SCREENS	SERIES: 4X26,28,30		/LB	\Box	FESCUE WAS 196/LB.	I .

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP CR	R FP	NOTES	CONCLUSION
		KENTUCKY 31										THIS SAMPLE HAD BEEN WORKED WITH A YEAR BEFORE AND THE VIBRATOR HAD BEEN ABLE TO SALVAGE 65% OF THE FESCUE	USING THE ABOVE SEQUENCE, ABOUT 50% OF THE FESCUE WAS RECLAIMED WITHOUT
169 FESTUCA		FESCUE	ALLIUM	CEPA	ONION	REMOVE ONION SEEDS	SCREEN	SEQ.1/15 ROUND HOLE SEQ.6X24,THRU FRACT	FAIR	52 5	7 7	2 FREE OF ONION.	ONION.
			ALLIUM	CEPA	ONION		SCREEN	FROM 1/15	FAIR	72 5	6 8	1	
								SEQ19"DIA X .03"DEEP POCKET,					
			ALLIUM	CEPA	ONION		INDENT CYLINDER	HELD FRACTION FROM 6X24	GOOD	81 10	0 10	0	
5.0 Programa		PENNLAWN FESCUE	LOLIUM			REMOVE RYEGRASS AND	AIR-SCREEN	1/22 OVER 6X28, WITH			7 9		DROW DR
52 FESTUCA		FESCUE			RYEGRASS	RATTAIL FESCUE.		1/22 OVER 6X28, WITH					BEST RE
			VULPIA		MYUROS	REMOVE RYEGRASS,	AIR-SCREEN	DAMS	GOOD	93 6	7 9	8	
		PENNLAWN				BARLEY, OATS, HAIRGRASS AND							NO TRIALS WERE SUCCESSFUL IN RECLAIMING PENNLAWN FESCUE FROM
76 FESTUCA		FESCUE	LOLIUM		RYEGRASS	VELVETGRASS.	SCREENS	MANY VARIOUS SIZES	POOR				RYEGRASS.
			LOLIUM		RYEGRASS RYEGRASS		PNEUMATIC VIBRATORY		POOR POOR				
													THE 1/20 ROUND-HOLE SCREEN DID VERY WELL, HOLDING ABOUT 10% OF THE LOT
226 PROWING		PENNLAWN FESCUE	LOLIUM		RYEGRASS	REMOVE RYEGRASS	SCREEN	1/20 ROUND-HOLE	GOOD				CONTAINING RYEGRASS, DOUBLES AND A FEW LARGE FESCUE.
226 FESTUCA		FESCUE	LOLIOM		RIEGRADO	REMOVE ASSORTED	SCREEN	1/20 ROUND-HOLE	GOOD				PEW LARGE PESCOE.
						WEEDS (MESQUITE, DOG FENNEL, SEDGE, SHEEP SORREL, RUSH, BLACKBERRY SEED),							GOOD RESULTS WERE OBTAINED WITH A SCREEN FOLLOWED BY INDEMT CYLINDER. AN ESTIMATED 2% OF THE CROP WAS LOST
522 FESTUCA		PENNLAWN FESCUE	MISC		MISC	AND CLOVER, MUD CLODS, ETC.	SCREEN	SEQ. 1/15 ROUND-HOLE	GOOD				AND THE FINAL PRODUCT APPEARED ESSENTIALLY FREE OF CONTAMINANT.
			MISC		MISC		INDENT CYLINDER	SEQ. #5 INDENT	GOOD				
			MISC		MISC		GRAVITY	SBQ. WS INDENT	POOR				
			MISC		MISC	SALVAGE FESCUE FROM THIS SAMPLE WHICH WAS A REJECT FRCTION FROM A SEPARATING PROCESS.	VIBRATORY		POOR			VARIOUS SCREEN COMBINATION WERE TRIED. TOP SCREENS WERE #6, #7, 4X18, 1/22X1/2 AND 3/64X5/16. BOTTOM SCREENS	RESULTS WERE GENERALLY UNSATISFACTORY BECAUSE THE ILLAHEE FESCUE SEEDS WERE
97 FESTUCA		ILLAHEE FESCUE	VULPIA	MYUROS	RATTAIL FESCUE	CONTAMINANT IS RATTAIL FESCUE.	AIR-SCREEN	#6 OVER 4X28 W/DAMS	POOR	77 9	0 9	WERE 4X28, 4X30 AND 4X32; 8 SOME WITH DAMS.	SMALL AND RESPONDED LIKE THE RATTAIL FESCUE. INERT MATERIAL CAN BE EFFECTIVELY
		BLANKETFLOWE				REMOVAL OF INERT MATERIAL, LARGELY		DECK: SANDBLASTED METAL, SIDESLOPE=13, BACKSLOPE=15, FEED				THIS SAMPLE IS #734b IN THE	SEPARATED FROM BLANKETFLOWER WITH THE VIBRATOR SEPARATOR. GOOD RESULTS WERE ALSO OBTAINED BY HAND-THRESHING THE SEED, PASSING IT THROUGH AN AIR COLUMN AND THEN SCREENING IT WITH A
1029 GAILLARDIA	ARISTATA	R	INERT		INERT	STEMS	VIBRATORY	RATE=35	GOOD	7	5	FILES. THE LAH HULLER SCARIFIER	#6 ROUND-HOLE SCREEN.
974 GAILLARDIA		GAILLARDIA	DEBEARD			DEBEARD	DEBEARDER	LAH #12 MANTLE	FAIR			REMOVED A PORTION OF THE PAPUS FROM THIS SEED BUT APPEARED TO DAMAGE THE SEED TOO SEVERELY. TESTS OF OTHER MANTLE WIRE SIZES MAY IMPROVE RESULTS.	INCONCLUSIVE
1035 GAILLARDIA		GAILLARDIA	INERT		INERT	REMOVE INERT MATERIAL	VIBRATORY		FAIR			FORMERLY UNDER SAMPLE #736	
						REMOVE INERT		DECK: FINE CLOTH, BACKSLOPE=4, ENDSLOPE=11,				THE INERT MATERIAL TENDED TO CLING TO GROUPS OF SEEDS BEFORE SEPARATION.	THE GRAVITY TABLE GAVE THE BEST RESULTS. VIBRATOR AND PNEUMATIC SEPARATORS ALSO WORKED BUT WITH HIGHER CROP LOSS. THIS REPORT WAS ORIGINALLY 734a. 734b, CONCERNING BLANKETFLOWER AND SUBMITTED BY THE SAME PERSON, HAS BEEN CHANGED TO 1029.
734 GAZANIA	SPLENDENS	GAZANIA	INERT		INERT	MATERIAL	GRAVITY	SPEED=775, AIR=1.75	GOOD			BEFORE SEPARATION.	FRACTIONS THRESHED ON THE FILAMENT
887 GAZANIA		GAZANIA	FUZZA	FURA	FUZZ	REMOVE FUZZ FROM SEEDS.	SCARIFIER	FILAMENT					SCARIFIER WERE SENT TO SUBMITTER FOR GERMINATION TESTS. THE FILAMENT THRESHER SHOWS SOME
857 GAZANIA		GAZANIA	LINT		LINT	REMOVE LINT	OTHER	FILAMENT THRESHER	FAIR				PROMISE AT REMOVING LINT FROM GAZANIA SEEDS BUT HAS VERY LIMITED CAPACITY.
						REMOVE FUZZ FROM							COMBING THE SEEDS ALONG A STIFF VERTICAL-PILE NYLON-FIBER SURFACE REMOVED WAS THE ONLY TECHNIQUE FOUND
658 GAZANIA 800 GLYCINE	May	GAZANIA	OL VOINT	W.V.	ani im govinavia	GAZANIA SEED REMOVE SPLIT SOYBEANS FROM WHOLE SOYBEANS USING THE FRICTION SEPARATOR.	TD LOWLOW	CARPET BELT, SCOTCHBRITE BAR					TO BE SUCCESSFUL. FRACTIONS WERE SENT TO SUBMITTER FOR EVALUATION. OTHER BAR/BELT MATERIALS WILL MORE EFFICIENTLY REMOVE SPLITS
	MAX MAX	SOYBEAN	ROCKS	MAX	SPLIT SOYBEANS ROCKS	REMOVE ROCKS, SOIL, SPLITS, AND INERT	FRICTION AIR-SCREEN	18/64 X 3/4 SLOT TOP SCREEN	FAIR			A SEQUENCE OF HAND SCREENS FOLLOWED BY 2 PASSES OVER THE SPIRAL SEPARATOR REMOVED NEARLY	FROM ROUNDS. USE SCREENS, AIR, AND A SPIRAL SEPARATOR.
TIOI GHICINE	····A	DOIDEAN	ROCKS		ROCKS	SIZIIS, AND INDRI	AIR-SCREEN	11/64 X 3/4 SLOT BOTTOM SCREEN	GOOD			5	See and LOV.
977 GOMPHRENA		VARIOUS	GOMPHRENA GOMPHRENA		ROCKS	REMOVE PAPUS FROM GOMPHRENA	SCARIFIER BELT THRESHER	LARGE SEED FLIGHT #12 SQWW	GOOD GOOD POOR	95 9	5 9	9 SEED WAS RUN THROUGH 3 TIMES. REDUCTION IN WEIGHT WAS 10LB TO 4.5LB	LAH DID A GOOD JOB OF DEBEARDING GOMPHRENA.

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI IP	CR FP	NOTES	CONCLUSION
									LAH WITH #14 SQUARE			THIS MATERIAL WAS RUN AS A BATCH. DEFUZZED MATERIAL WAS DISCHARGED THROUGH FRONT OPENING. SEED REMOVED FROM THE HULL WAS PASSED THROUGH	USE LAH HULLER SCARIFIER WITH #14
1097	GOMPHRENA		GOMPHRENA	GOMPHRENA		GOMPHRENA WITH FUZZ		SCARIFIER	WIRE MANTLE	GOOD		THE SCREEN.	SQUARE WIRE SCREEN.
							REMOVE INERT MATERIAL (PIECES OF THE RECEPTICLE). TEST SCREENS AND					THIS MATERIAL CONTAINED	
1176	GOMPHRENA		GLOBE AMARANTH	INERT		PEICES OF RECEPTICLE	VIBRATORY AS WELL AS OTHER MACHINERY.	SCREENS	SEQ. 1/18X14SLOT,12X12WW	FAIR		CYLINDRICAL SHAPED INERT MATERIAL. SCREE	
				INERT		PEICES OF RECEPTICLE		PNEUMATIC	SDB	GOOD			
				INERT		PEICES OF RECEPTICLE		VIBRATORY	SANDBLASTED DECK	BEST		THE GRAVITY TABLE AND	
154	GOSSYPIUM		COTTON	XANTHIUM		COCKLEBUR	REMOVE COCKLEBURS, STICKS AND STEMS FROM DELINTED COTTON SEED.	INDENT CYLINDER	15/32"DIAMX13/64"	GOOD		ELECTROSTATIC SEPARATOR WERE	A LENGTH SEPARATOR WILL WORK COMMERCIALLY ON SEPARATING COCKLEBUR FROM DELINTED COTTONSEED. THE MORE DELINTED IT
134	GUSSIFIUM		COTTON	XANTHIUM		COCKLEBUR	SEED.	PNEUMATIC	POCKET	POOR		EVALUATION.	DEDINIED II
				XANTHIUM		COCKLEBUR		SCREEN	#15 SCREEN	FAIR	80		
				XANTHIUM		COCKLEBUR		INDENT DISC	SS SIZE DISC	FAIR			USING THE ABOVE SEQUENCE,
343	GOSSYPIUM		COTTON	XANTHIUM		COCKLEBUR	REMOVE COCKLEBURS	GRAVITY	SEQ.	GOOD	100 100		GRAVITY/PNEUMATIC/#15 RH/11/64 SLOT, 95.7% OF THE COTTON SEED WAS RECOVERED FREE OF COCKLEBURS.
				XANTHIUM		COCKLEBUR		PNEUMATIC	SEQ.REJECT FROM GRAVITY	GOOD			
									SEQ.#15, LIFTED BY				
				XANTHIUM		COCKLEBUR		SCREEN	PNEUMATIC SEQ.11/64, FRACT	GOOD			
				XANTHIUM		COCKLEBUR		SCREEN	THRU #15	GOOD	100 100)	
							RUN FLAME-DELINTED COTTON SEED ON ELECTROSTATIC SEPARATOR TO MAKE COMPARATIVE EVALUATIONS OF PERFORMANCE WITH THE ELECTRODE IN						
186	GOSSYPIUM		COTTON				PINNING, LIFTING AND COMBINATION POSITIONS.						SAMPLES SENT TO SUBMITTER FOR EVALUATION.
							EOECTROSTATIC SEPARATION ON 3 COTTON SEED LOTS TO						FRACTIONS WERE SENT TO SUBMITTER FOR
326	GOSSYPIUM		COTTON				IMPROVE GERMINATION.						GERMINATION TRIALS. FRACTIONS WERE SENT TO SUBMITTER FOR
571	GOSSYPIUM		COTTON				CLEAN SEED	OTHER	SEQ.VERTICAL SCREEN				EVALUATION.
1018	GYPSOPHILA	ROSA	BABYS BREATH					SCREEN	SEQ.				
932	HELIANTHUS	ANNUA	SUNFLOWER				WHAT EQUIPMENT CAN BE USED FOR CONDITIONING CONFECTIONERS SUNFLOWER SEED?						MACHINES THAT MAY BE USED TO CONDITION SUNFLOWER SEED ARE BRUSH AND BELT TYPE THRESHERS, SCREENS, AIR SEPARATOR, GRAVITY SEPARATOR AND PRECISION GRADER.
1221	HELIANTHUS	ANNUA	SUNFLOWER				REQUEST FOR INFORMATION CONCERNING FRICTION SEPARATOR MANUFACTURERS FOR REMOVAL OF INERT MATERIAL FROM SUNFLOWER.					DISCUSSION OF FRICTION SEPARATOR PRINCIPLES OF OPERATION AND MANUFACTURERS TOOK PLACE. CLIENT IS LOOKING FOR EXISTING FRICTION SEPARATORS AND SOME INDICATION OF THIER PERFORMANCE.	
		ANNUUS		INERT		INERT	REMOVE CHIPPED AND CRACKED SEED COATS FROM UNDAMAGED SEED	PRICTION	BELT: CARPET, 3 PASSES	GOOD	87		CHIPPED SUNFLOWER SEED MAY BE MOST EFFECTIVELY REMOVED FROM UNDAWAGED SEED BY FRICTION SEPARATOR WITH CARPET ON BELT.
							REMOVE INERT FROM SEED ALREADY 99.8%		CARPET BELT SCOTCH BRITE BAR			THIS WAS EDIBLE SEED FOR CONFECTIONARY USE. THEIR CONDITIONING RATE WAS APPROX 10000 LB HOUR. MOST OF THE INDET MATERIAL WAS PIECES OF THE RECEPTICLE.	VAN ANDREAS
		ANNUUS		INERT		INERT	PURE REMOVE INERT PLANT	FRICTION	BRUSH BAR, CARPET				FOUR PASSES ON THE FRICTION SEPARATOR DID AN EXCELLENT JOB OF REMOVING INERT PLANT PARTS FROM THE SUNFLOWER
720	HELIANTHUS		SUNFLOWER	INERT		INERT	PARTS.	FRICTION	BELT, 4 PASSES	GOOD	100)	SEED.
763	HELIANTHUS		SUNFLOWER	INERT		PLANT PARTS	REMOVE INERT PLANT PARTS AND CRACKED SEED	FRICTION	4' WIDE, SCOTCH BRITE BAR, 10 DEGREE BAR ANGLE, SPEED=200FPM		92 100	CROP LOSS CAN BE KEPT TO A MINIMUM BY RERUNNING TO SALVAGE GOOD SEED.	THE FRICTION SEPARATOR REMOVED NEARLY ALL INERT PLANT PARTS AND 1/3 OF THE CRACKED SEED.
						PLANT PARTS AND							
				INERT		CRACKED SEED		FRICTION	SAME	FAIR 9	32 97	1	

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47	HELIANTHUS		SUNFLOWER	N/A		N/A	DETERMINE METHOD OF MAKING EFFECTIVE SIZE SEPARATION AT GOOD CAPACITY. THREE SIZE FRACTION DESIRED ARE: OVER #20, OVER #18, THROUGH #18 ROUND HOLE SCREENS.	AIR-SCREEN	#20 OVER #18 ROUND-HOLE			A SAMPLE OF KNOWN SIZE FRACTIONS WAS SENT THROUGH THE LAB CLIPPER AT 440PM, CONSTANT FEED, DIFFERENT DAMS, AND DIFFERENT STROKES.	BEST RESULTS WERE OBTAINED WITH 1/4" DAMS (DAMS WERE VERY HELPFUL IN PRODUCING MORE ACCURATE SIZE SEPARATIONS) AND STROKE SETTINGS OF 5/8" AND 3/8" (AS LONG AS THE SCREENS WERE FITTED WITH DAMS). 1/8" STROKE WAS ENTIRELY UNSATISFACTORY.
												IT WAS FOUND THAT COCKLEBURS ADHERE TENACIOUSLY TO POLYURETHANE FOAM WHEN SUBJECTED TO LIGHT PRESSURE AGAINST THE FOAM. A SIMPLE MACHINE COULD POSSIBLY BE DEVELOPED EXPLOITING THIS	THE VELVET ROLL DID AN EXCELLENT JOB OF THIS SEPARATION. THE 1% LOSS OF CROP COULD BE REDUCED EVEN MORE WITH FURTHER ADJUSTMENT AND IMPROVED
296	HELIANTHUS		SUNFLOWER	XANTHIUM		COCKLEBUR COCKLEBUR	REMOVE COCKLEBUR	VELVET ROLL PNEUMATIC		GOOD 9 POOR	8 100 100	FACT.	FEEDING.
				XANTHIUM		COCKLEBUR		VIBRATORY		POOR			
460	HELIANTHUS		SUNFLOWER	XANTHIUM		COCKLEBUR	REMOVE BATHURST BURR	DRAPER		POOR	100 100	VIBRATOR, ELECTROSTATIC, DRAPER, INCLINED CHUTE, BOUNCE PLATE, SPIRAL, SCREENS AND MAGNETIC WERE INEFFECTIVE.	THE COLOR SORTER PERFORMED THE BEST, REMOVING NEARLY ALL BURS WITH SMALL CROP LOSS.
400	RELIANTHUS		SUNFLOWER	XANTHIUM		COCKLEBUR	REMOVE BAIHORSI BORK	COLOR SORTER		GOOD	100 100	INEFFECTIVE.	CROP LOSS.
179	HOLCUS	LANATUS	VELVETGRASS	RUMEX	ACETOSELLA	SHEEP SORREL	REMOVE SHEEP SORREL AND FIDDLENECK	INDENT CYLINDER	SEVERAL SIZES	POOR			BASED ON SEED MEASUREMENT
				RUMEX	ACETOSELLA	SHEEP SORREL		INDENT DISC		POOR			J. J
				RUMEX	ACETOSELLA	SHEEP SORREL		SCREEN	.032"DIAM HOLES	FAIR 8	2 98	3	
				AMSINCKIA		FIDDLENECK		INDENT CYLINDER		POOR			
313	HOLCUS	LANATUS	VELVETGRASS	AMSINCKIA AMSINCKIA		FIDDLENECK	REMOVE WEEDS INCLUDING FINE FESCUE, SHEEPSORREL, CATCHFLY, BUCKHORN, ETC.	INDENT DISC SCREENS	.032" HOLES	POOR FAIR 8	2 98		THE VIBRATOR DID THE BEST RECOVERING 89% OF THE ORIGINAL AT 99.9% PURITY. THE 1/24 OVER 6X34 SCREENS YIELDED 84% AT 99.4% PURITY AND THE INDENT CYLINDER YIELDED 67% AT 99.6% PURITY.
323		ZIIIIII OO	VEEVETGIGIOS	WEEDS		WEEDS	210.	SCREENS	1/24 OVER 6X34	GOOD	99		CIBINDER TIBEBBB 070 HI 33100 TORTIT.
				WEEDS		WEEDS		INDENT CYLINDER	1/16"X.025" CYLINDER	FATR	100		
213	HORDEUM	VULGARE	BARLEY	AVENA	FATUA	WILD OAT	REMOVE WILD OATS	INDENT CYLINDER	SEQ45"DIAX.109"DEE	GOOD		THE INDENT WOULD HAVE DONE BETTER WITH A .4" DIAMETER POCKET.	THE INDEMT/PNEUMATIC/SCREENING SEQUENCE YIELDED A 100% PURE BARLEY FRACTION. THE FRACTION HELD ON THE #8 SCREEN WAS TOTALLY PURE AS WAS THE FRACTION HELD ON THE 5-1/2X3/4 SLOTTED SCREEN.
				AVENA	FATUA	WILD OAT		PNEUMATIC	SEQ.LIFTED FRACT. FROM INDENT	GOOD			
				AVENA	FATUA	WILD OAT		SCREEN	SEQ.#8 RD-HOLE, DROPPED FRACT. FROM BLOWER SEQ.5-1/2X3/4	GOOD			
				AVENA	FATUA	WILD OAT		SCREEN	SLOT, DROPPED FRACT. FROM #8	GOOD	100 100		
							SEPARATE DIFFERENT VARIETIES OF BARLEY THAT VARY SLIGHTLY		1101. #0		100 100		
335	HORDEUM	VULGARE	BARLEY	HORDEUM HORDEUM	VULGARE VULGARE	BARLEY BARLEY	IN COLOR.	COLOR SORTER ELECTROSTATIC		POOR POOR			TRIALS WERE UNSUCCESSFUL.
1150	HORDEUM	VULGARE	MALTED BARLEY	HORDEUM	VULGARE	MALTED BARLEY	REMOVE ROOTS FROM MALTED BARLEY	POOR	LAH W/20X20 WW MANTLE	GOOD		THIS WAS A LOT OF MALTED BARLEY THAT REQUIRED REMOVAL OF THE DRIED RO	
	HORDEUM	VULGARE	BARLEY	TRITICUM		WHEAT	REMOVE WHEAT.	SCREENS	7/64X3/4 SLOT OVER #8-1/2RH		0 100 100	THE SCREENING TRIALS WERE DONE WITH AN ARTIFICIAL MIXTURE WHICH WAS 50% BARLEY AND 50% WHEAT. THE INDENT TRIAL WAS DONE WITH THE ORIGINAL SAMPLE.	BOTH THE SCREENS AND THE INDENT CYLINDER DID FAIRLY WELL, BUT CROP LOSS WAS HIGH. SCREENS REMOVED ALL THE WHEAT IN AN ARTIFICIAL SAMPLE WHICH WAS 50% PURE AND, USING THE ORIGINAL SAMPLE, THE .28°DIA X .08°DEEP INDENT REDUCED WHEAT TO 14/LB.
								INDENT	.28"DIAX.08"DEEP				
				TRITICUM		WHEAT	SEPARATE BLUE AND AMBER HULL-LESS BARLEY WITH COLOR	CYLINDER	POCKETS	FAIR 9	8		AFTER FIVE PASSES THROUGH THE COLOR SORTER, AN ACCEPTABLE SEPARATION WAS
410	HORDEUM	VULGARE	BARLEY				SORTER.	-					MADE. NO SEPARATION TRIALS PERFORMED, BUT
		VULGARE											THE SEQUENCE USED IN PS #213 FOR BARLEY WITH WILD OATS WOULD BE EFFECTIVE. SOME MODIFICATION IN SIZE OF INDENT CYLINDER OR THE ROUND-HOLE SCREEN MIGHT BE NECCESSARY BECAUSE OF
214	HORDEUM	BETZES	BARLEY	AVENA	FATUA	WILD OATS	REMOVE WILD OATS	1					THE DIFFERENT SIZES OF BARLEY S

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI IP	CR F	NOTES	CONCLUSION
215	HORDEUM	VULGARE COMPANA	BARLEY	AVENA	FATUA	WILD OATS	REMOVE WILD OATS						NO SEPARATION TRIALS PERFORMED, BUT THE SEQUENCE USED IN PS #213 FOR BARLEY WITH WILD DATS SHOULD B EFFECTIVE. SOME MODIFICATION IN SIZE OF INDENT CYLINDER OR THE ROUND-HOLE SCREEN MIGHT BE NECCESSARY BECAUSE OF THE DIFFERENT SIZES OF THE BARLEY SEED.
802	HUMULUS	LUPULUS	HOPS	INERT		INERT	REMOVE HOP CONE MATERIAL: BRACTS, STEMS AND STRIG. HAD BEEN THROUGH A THRESHER.	AIR-SCREEN	#9 RD HOLE TOP SCR., #6 RD HOLE BOTTOM SCR., AIR SETTING: 50.	GOOD		A QUICK SCREENING RESULTED IN MORE CROP LOSS BUT A CLEANER PROCUCT BECAUSE STICKS DID NOT HAVE AS MUCH TIME TO WORK THROUGH THE SCREEN AS COMPARED TO A LONGER SCREENING TIME.	A SATISFACTORY SEPARATION OF HOP CONE MATERIAL TO YIELD PURE SEED CAN BE MADE ON AN AIR-SCREEN MACHINE. ROUND-HOLE SCREEN SIZES RANGING FROM .056 TO .033 WOULD DIVIDE THE SEED
961	IMPATIENS		IMPATIENS	INERT INERT		INERT INERT	REMOVE CONTAMINANTS FROM SEED.	SCREENS PNEUMATIC				THIS SEED LOT HAD ALREADY BEEN CONDITIONED.	INTO WIDTH FRACTIONS. WOVEN WIRE SCREENS RANGING FR
				INERT		INERT		GRAVITY					
							REMOVE SHELLS FROM						
825	JUGLANS		WALNUT	SHELLS		SHELLS	MEATS USING MAGNETIC SEPARATOR.	MAGNETIC	VARIOUS LEVELS MAG. FLUID				ALL FRACTIONS SENT TO SUBMITTER.
	KOHLERIA	CRISTATA											
								INDENT				PNEUMATIC, FRICTION, BOUNCE PLATE, VELVET ROLL AND	THE INDENT CYLINDER, SCREEN, AND AIR- SCREEN YIELDED BEST RESULTS WITH THE INDENT CYLINDER GIVING A 100% PURE
698	LACTUCA	SATIVA	LETTUCE	DIGITARIA DIGITARIA		CRABGRASS CRABGRASS	REMOVE CRABGRASS	CYLINDER SCREEN	#7 CYLINDER 1/22 ROUND HOLE	GOOD 9 GOOD 9		0 VIBRATOR WERE INEFFECTIVE.	PRODUCT WITH A .83% LOSS.
				DIGITARIA		CRABGRASS		AIR-SCREEN	1/22 ROUND HOLE	GOOD 9			
480	LACTUCA	SATIVA	LETTUCE	INERT		INERT	REMOVE INERT	VIBRATORY PNEUMATIC	SMOOTH, FORMICA-LIKE			ELECTROSTATIC, VELVET ROLL AND INDENT CYLINDER WERE UNSUCCESSFUL IN MAKING THIS SEPARATION.	THE VIBRATOR SEPARATOR CAN REMOVE A LARGE PORTION OF THE TRASH BUT NOT ALL. A BETTER SEPARATION IS MADE BY BLOWING AND THEN SCREENING THE SAMPLE.
				INERT		INERT		SCREENS	SEQ. SEQ.4X26 OVER 22X22				
362	LACTUCA	SATIVA	LETTUCE	LACTUCA	SATIVA	LETTUCE		AIR-SCREEN	1/20 OVER 1/25 W/DAMS				THE AIR-SCREEN MACHINE WITH A 1/20 ROUND-HOLE TOP SCREEN AND A 1/25 ROUND-HOLE BOTTOM SCREEN IS RECOMMENDED FOR SIZING THIS LOT OF LETTUCE SEED. 84% OF THE SEED LOT WAS HELD ON THE 1/25 SCREEN.
1269	LACTUCA	SATIVA	LETTUCE	LACTUCA	SATIVIA	LIGHT LETTUCE	SEPARATE DARK LETTUCE SEED FROM LIGHT LETTUCE CONTAMINANT	COLOR SORTER	#23 FILTER, BLACK BACKGROUNDS	GOOD 9	5 90 9	THIS SAMPLE REPRESENTS 90 LBS OF MIXED LIGHT AND DARK 9 LETTUCE SEED. EST	
					DATIVIA				6X25 OVER 6X26 OVER			JESTICE SEED. EST	BEST RESULTS WITH 6X25-OVER-6X26-OVER 6X28 STACK OF SCREENS. 85% OF SETARIA
177	LACTUCA	SATIVA	LETTUCE	SETARIA SETARIA		BRISTLEGRASS BRISTLEGRASS	REMOVE BRISTLEGRASS	SCREENS VELVET ROLL	6X28	GOOD POOR	95		REMOVED WITH 11% SHRINKAGE.
				SETARIA		BRISTLEGRASS		ELECTROSTATIC		POOR			
				SETARIA		BRISTLEGRASS		VIBRATORY		POOR			
				SETARIA		BRISTLEGRASS		SPIRAL		POOR			
				SETARIA		BRISTLEGRASS	SIZE-GRADE FOR	MAGNETIC		POOR			THE SAMPLES WERE SCREENED, THEN GRADED FURTHER ON THE GRAVITY TABLE. FRACTIONS TAKEN BY SUBMITTER FOR
608	LACTUCA	SATIVA	LETTUCE				QUALITY EVALUATION. GRADING FOR QUALITY	SCREEN GRAVITY	SEQ. 1/22 ROUND-HOLE SEQ. SEQ 1/21 RD HOLE,			SIMILAR TO #608, BUT WITH	EVALUATION. SIZE-GRADED FRACTIONS WERE SENT TO
621	LACTUCA	SATIVA	LETTUCE				EVALUATION. REMOVE INERT	OTHER GRAVITY	SHAKER SEQ			VANGARD VARIETY.	SUBMITTER FOR EVALUATION.
804	LARIX	LARICINA	TAMARACK	INERT		INERT	MATERIAL (STICKS, PITCH AND CONE PARTS) FROM ALREADY CLEANED AND DEWINGED SAMPLE.	PNEUMATIC	SEQ.AIR SPEED: 700	GOOD		THE FRICTION SEPARATOR, WHICH WORKS WELL WITH MOST CONIFER SEEDS, DID NOT WORK AS WELL WITH TAMARACK BECAUSE OF THE SMALL SIZE OF THE SEED.	TAMARACK CAN BE CLEANED TO 99% PURITY USING THE ABOVE SEQUENCE, BUT SEED LOSS WOULD BE LARGE UNLESS CAREFUL RECLARMING OF FRACTIONS IS DONE.
								INDENT					
				INERT		INERT		CYLINDER	#8 INDENT CYLINDER	GOOD	\perp	1	
				INERT		INERT		SCREEN	1/13 ROUND HOLE SCREEN	GOOD	66 9	9	
			WESTERN			PITCH AND PLANT						THIS WAS A TYPICAL SMALL LOT OF LARCH. MAIN PROBLEM WAS THE PITCH. ELECTROSTATIC AND VIBRATORY DID A GOOD JOB OF	USE VIBRATORY SEPARATOR WITH SANDBLASTED METAL DECK TO REMOVE INERT MATERIAL FROM LARCH SEED. SECOND CHOICE WOULD BE ELECTORSTATIC
1132	LARIX	OCCIDENTALIS	LARCH	INERT		PARTS		SCREEN	6X16 WW	FAIR	50	REMOVING PITCH.	SEPARATOR.
				INERT		PITCH AND PLANT PITCH AND PLANT PARTS		VIBRATORY ELECTROSTATIC	SANDBLASTED DECK PINNING ELECTRODE POSITION		5 90 9 5 75 9	0	
			WESTERN				REMOVE PITCH		TWO DECKS:CANVAS THEN SANDBLASTED ALUMINUM AND 1/13 RH			THIS MATERIAL HAS BEEN CLEANED WITH SCREENS, PNEUMATIC AND SOMETIMES	
1209	LARIX	OCCIDENTALIS	LARCH	INERT		PITCH	PARTICLES	VIBRATORY	SCREEN AND	GOOD 7	5 90 9	8 GRAVITY. REMOVAL OF ALL P	
				INERT		PITCH		FRICTION	RUBBER BAR AND CARPET BELT	FAIR			
				INERT		PITCH		ELECTROSTATIC		POOR			
				INERT		PITCH		MAGNETIC		FAIR			

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R FI	NOTES	CONCLUSION
						REMOVE SEEDS WITH CRACKED COATS FROM							ONLY THE PNEUMATIC SEPARATOR WAS ABLE TO MAKE THIS SEPARATION, RECOVERING
103 LATHYRUS	ODORATUS	SWEET PEA	LATHYRUS	ODORATUS	SWEET PEA	THOSE WITHOUT CRACKED COATS.	PNEUMATIC		GOOD	75 8	5 9	5	ABOUT 80% OF THE GOOD SEED AT 95% PURITY.
103 DATHIKUS	ODORATOS	SWEET PER	LATHYRUS	ODORATUS	SWEET PEA	CRACKED COATS.	VELVET ROLL		POOR	75 6	3 3	9	PORIII.
			LATHYRUS	ODORATUS	SWEET PEA		MAGNETIC		POOR				
			LATHYRUS	ODORATUS	SWEET PEA		DRAPER	CANVAS BELT	POOR		_		
			LATHYRUS	ODORATUS	SWEET PEA		VIBRATORY	CANVAS BELI	POOR		_		
			DATITIKOS	ODORATOS	SWEET FEA		VIBRATORI		FOOR				USE A #11 ROUND-HOLE SCREEN WITH
241 LENS	CULINARIS	LENTIL	HORDEUM	VULGARE	BARLEY	REMOVE BARLEY	SCREEN	#11 ROUND-HOLE VARIOUS SLOTTED	GOOD	10	0 10	0	DAMS.
			HORDEUM	VULGARE	BARLEY		SCREEN	SCREENS	POOR				
522 x mys								11/64 ROUND-HOLE					AN ALMOST PERFECT SEPARATION MAY BE
533 LENS	CULINARIS	LENTIL	HORDEUM	VULGARE	BARLEY	REMOVE BARLEY. DETERMINE DAMAGE TO	AIR-SCREEN	SCREEN	GOOD		_		MADE WITH AN 11/64 SCREEN IF T
						DETERMINE DAMAGE TO LENTILS DUE TO HANDLING BY THE USDA FLUIDIZED CONVEYOR. THE CONVEYOR CONSISTS OF A 56' RUN OF 1-							THIS LOT CAN BE TRANSPORTED READILY WITH LITTLE OR NO BREAKAGE. MOST OF THE BREAKAGE OSSERVED WAS DUE TO THE AIR-LOCK AND COULD BE REDUCED OR ELIMINATED WITH A DROP-THROUGH LOCK WITH FIGHBLE BLADE TIPS AND A WIPER
151 LENS	CULINARIS	LENTIL				1/2"ALUMINUM TUBING.						DENSE PHASE F TEST RUN WITH BLOWER SPEED OF	AT THE FEED INLET.
						DETERMINE DAMAGE TO LENTILS DURING						860 RPM, AIR PRESSURE AT 3-5 PSIG AND AUX AIR VALVE OPEN 1	IN THE TESTS, THERE WAS NO APPARENT
473 LENS	CULINARIS	LENTIL				FLUIDIZED CONVEYING. SEPARATE SELF-						1/2 TURNS.	DAMAGE TO THE LENTILS.
						POLLINATED SEED FROM							ONLY THE #7 INDENT CYLINDER WAS ABLE
		SERICEA				OPEN-POLLINATED	INDENT	#4 CYLINDER, 45					YIELD FRACTIONS APPROACHING THE
180 LESPEDEZA	SERICEA	LESPEDEZA	LESPEDEZA	SERICEA	SERICEA LESPEDEZA	SEED.	CYLINDER	MINUTES	FAIR		\perp		DESIRED SEPARATION.
			LESPEDEZA	SERICEA	SERICEA LESPEDEZA		VIBRATORY		POOR				
			LESPEDEZA	SERICEA	SERICEA LESPEDEZA		PNEUMATIC		POOR	\vdash			
								ROUND HOLE, WIRE					
			LESPEDEZA	SERICEA	SERICEA LESPEDEZA		SCREENS	MESH	POOR				
		KOREAN				REDUCE GIANT FOXTAIL TO 100/LB AND DODDER TO 100/LB. 6840 FOXTAIL/LB AND 972							THE DODDER CAN BE FAIRLY EASILY REMOVED USING THE DRAPER FOLLOWED BY THE VELVET ROLL. THE FOXTAIL COULD NOT BE REDUCED TO THE ALLOWABLE LIMIT
172 LESPEDEZA	STIPULACEA	LESPEDEZA	CUSCUTA		DODDER	DODDER/LB PRESENT.	DRAPER	SEQ.A.	GOOD				USING ANY OF THE EQUIPMENT.
172 2201 222211	DITT OLITOLIT	DEGT DECEM	CUSCUTA		DODDER	BOBBER, EB TREBERT.	VELVET ROLL	SEQ.A.	GOOD				COING INT OF THE EQUITMENT.
			SETARIA	FABERI	GIANT FOXTAIL		PNEUMATIC	529	POOR				
			SETARIA	FABERI	GIANT FOXTAIL		VELVET ROLL		POOR				
			SETARIA	FABERI	GIANT FOXTAIL		OTHER	CATAPULT	POOR				
			SETARIA	FABERI	GIANT FOXTAIL		SCREENS		POOR				
			SETARIA	FABERI	GIANT FOXTAIL		ELECTROSTATIC		POOR				
							INDENT						
			SETARIA	FABERI	GIANT FOXTAIL		CYLINDER		POOR				
								1/17 OVER 1/18 RD					ACCORDING TO SEED MEASUREMENTS, A .057" DIAM ROUND HOLE SCREEN SHOULD RETAIN 75% OF THE CROP WITH ONLY 5%
228 LESPEDEZA		LESPEDEZA	ALOPECURUS		FOXTAIL	REMOVE FOXTAIL.	SCREENS	HOLE					OF THE FOXTAIL. A 1/17 ROUN
1022 TAMBLE		LIATRIS	INERT		INERT	REMOVE INERT MATERIAL	PNEUMATIC		FAIR			BODMEDLY INDED CAMPLE #736	
1033 LIATRIS		LIATRIS	INERT		INERT	MATERIAL	PNEUMATIC		FAIR			FORMERLY UNDER SAMPLE #736	THE BELT THRESHER AND AIR-SCREEN MACHINE WITH A #6 SCREEN OVER A 1/20
								ana.					SCREEN WERE USED TO CONDITION
871 LIMNANTHES	ALBA	MEADOWFOAM	INERT		INERT	CONDITION SEED.	BELT THRESHER	SEQ.#6 OVER 1/20					MEADOWFOAM SEED.
			INERT		INERT		AIR-SCREEN	SCREEN					
													SCREENS, AIR COLUMN, VIBRATOR, VELVET ROLLS, FRICTION, DRAPER, AND INDENT CYLINDER WERE TRIED, BUT THE BEST
													PROCEDURE WAS A SEQUENCE OF SCREEN, AIR COLUMN AND INDENT CYLINDER. THIS
						REMOVE WHEAT AND		SEQ. 7 1/4 ROUND-					YIELDED A FINAL PURITY OF 99.7% WITH
595 LIMNANTHES	ALBA	MEADOWFOAM	TRITICUM		WHEAT	OTHER CONTAMINANTS	SCREEN	HOLE					14.2% CROP LOSS.
	ALBA	MEADOWFOAM					PNEUMATIC	SEQ.					
							INDENT						
714 LIMNANTHES	ALBA	MEADOWFOAM				DEMONTS TARE	CYLINDER	SEQ. #10 CYLINDER	GOOD		10	0	
1026 1 1112577	WW CARTS	YELLOW	TNIPP		TATELOR	REMOVE INERT	WITDDAMCD!		goor			BODWEDLY INDER COVERS "SCC	
1036 LINARIA	VULGARIS	TOADFLAX	INERT		INERT	MATERIAL	VIBRATORY		GOOD			FORMERLY UNDER SAMPLE #736	BEST RESULTS ON A SINGLE PASS BASIS WERE WITH THE VELVET ROLLS AND PNEUMATIC SEPARATOR. SCREENING WITH VELVET ROLLS AND BLOWING WITH
144 LINUM	USITATISSIMUM	FLAX	STEMS		STEMS	REMOVE STEMS	SCREEN	SEQ 1.4X18	GOOD				SCREENING YIELDED EVEN BETTER RESULTS.
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	JJIIII I JOJIHON		STEMS		STEMS		VELVET ROLL	SEQ 1.4XIO	GOOD	85 10	0 10	10	
			STEMS		STEMS		PNEUMATIC	SEQ 2.ESM-2 BLOWINGS			1		
			STEMS		STEMS		SCREEN	SEQ 2.4X20	FAIR	85 10	0 10	0	
			STEMS		STEMS		VELVET ROLL			85 9	6 9	9	
			STEMS		STEMS		PNEUMATIC	ESM		85			
1159 LINUM		WILD FLAX	LINUM		FIELD RUN WILD FLAX		SCREENS	SEQ 4X22 WW TOP				WILD FLAX WAS SCREENED TO DETERMINE APPROXIMATE SCREEN SIZES FOR CLEANING.	
			LINUM		FIELD RUN WILD FLAX		SCREENS	SEQ 5-1/2 TO 6 RH BOTTOM					
			ZINON		ZZZID KON WIND FIRA	REMOVE WILD OATS,		DOTTON					A 4X16 SLOTTED SCREEN OVER A 1/19 ROUND-HOLE WAS USED TO REMOVE WILD OATS, TRASH AND SMALL WEED SEEDS.
1		ANNUAL	AVENA	FATUA	WILD OATS	TRASH AND OTHER WEED SEEDS.	SCREEN	SEQ.4X16 SLOT	1				THEN A #5 INDENT CYLINDER LIFTED SHORT WEED SEEDS.

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM		OPERATING PARAMETERS	QUALI	IP CR	FP NOTES	CONCLUSION
			TRASH		TRASH WEEDS		SCREEN SCREEN	SEQ. 4X16 SLOT				
			TRASH		TRASH		SCREEN	SEQ.1/19 ROUND-HOLE SEQ.1/19 ROUND-HOLE				
							INDENT					
			WEEDS		SHORT WEEDS		CYLINDER	SEQ.#5 CYLINDER				PURITY EVALUATIONS WERE NOT MADE BUT
		ANNUAL						1/24X1/2 SLOTTED-				THE 1/24X1/2 SLOTTED SCREEN AND 4X20 WIRE MESH SCREEN SEEMED TO BE EFFECTIVE IN REMOVING THE OATS. ROUND-HOLE SCREEN TRIALS WERE
663 LOLIUM	MULTIFLORUM	RYEGRASS	AVENA	FATUA	WILD OATS	REMOVE WILD OATS	SCREEN	HOLE				UNSATISFACTORY.
			AVENA	FATUA	WILD OATS		SCREEN	4X20 WIRE MESH				A 1/24X1/2 SCREEN RECOVERS 84% OF THE
		ANNUAL										LOT AS PURE RYEGRASS OR A 4X18 SCREEN RECOVERS 93% OF THE LOT WITH A SMALL AMOUNT OF CHESS STILL IN THE CLEAN
279 LOLIUM	MULTIFLORUM	RYEGRASS	BROMUS BROMUS	COMUTATUS COMUTATUS	HAIRY CHESS	REMOVE HAIRY CHESS	SCREEN SCREEN	1/24X1/2 4X18	GOOD	100	100	SAMPLE.
		ANNUAL									THIS MATERIAL WAS THE LIFTED	TO REMOVE MANNAGRASS FROM ANNUAL
1085 LOLIUM	MULTIFLORUM	RYEGRASS	GLYCERIA	FLUTIANS	WATER MANNAGRASS	REMOVE MANNAGRASS	GRAVITY	450RPM CLOTH DECK	BEST		99 FRACTION OF AN INDENT DISK	RYEGRASS USE GRAVITY SEPARATOR
			GLYCERIA	FLUTIANS	WATER MANNAGRASS		VELVET ROLL	300RPM	FAIR	80 90	95 THIS WAS A LOT WITH 4%	
1194 LOLIUM	MULTIFLORUM	ANNUAL RYEGRASS	GLYCERIA	FLUTIANS	MANNAGRASS	REMOVE MANNAGRASS					MANNAGRASS. ADVICE WAS GIVEN BASED ON PS 1085. USE OF INDENT DISK AND GRAVITY WAS RECOMMENDED.	
		GULF ANNUAL				REMOVE WEED SEED (RATTAIL FESCUE, VELVET GRASS, AND UNIDENTIFIED SEED) AND INERT MATERIAL USING AIR-SCREEN		HIGH AIR VELOCITY, 2			BOTH TRIALS WERE WITH #6 1/2 RD HOLE TOP SCREEN AND #1/20	THE AIR SCREEN MET THE PURITY REQUIREMENTS, BUT WITH LARGE CROP
699 LOLIUM	MULTIFLORUM	RYEGRASS	MISC		MISC	MACHINE.	AIR-SCREEN	PASSES	FAIR	87	100 RD HOLE BOTTOM SCREEN.	Loss.
								2 PASSES, MEDIUM		0.7		
		SR4100	MISC		MISC		AIR-SCREEN	THEN NO AIR	FAIR	87	98	
		PERENNIAL					INDENT				THIS SAMPLE REPRESENTED 55000	
1230 LOLIUM	PERENNE	RYEGRASS PERENNIAL	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	CYLINDER	5.00MM POCKET			LBS OF CERTIFIED S	BEST RESULTS WERE HAD WITH THE BLOWER. A 1/16 ROUND-HOLE SCREEN DID FAIRLY WELL, BUT CROP LOSS WAS
782 LOLIUM	PERENNE	RYEGRASS	ALOPECURUS		FOXTAIL	REMOVE FOXTAIL	PNEUMATIC	ESM	GOOD	94		HIGHER.
			ALOPECURUS		FOXTAIL		SCREEN	1/16 ROUND-HOLE	FAIR	98		
		PERENNIAL				REMOVE SWEET					TRIALS WITH THE AIR COLUMN AND VELVET ROLLS WERE	THE VIBRATOR SEPARATOR WORKED VERY WELL ON THIS SEPARATION. THE GRAVITY TABLE WITH CLOTH DECK SHOWED SOME POTENTIAL, BUT THE LOT WAS TOO SMALL
590 LOLIUM	PERENNE	RYEGRASS PERENNIAL	ANTHOXANTHUM	ODORATUM	SWEET VERNALGRASS	VERNALGRASS	VIBRATORY	SANDBLASTED DECK	GOOD		INEFFECTIVE.	TO COMPLETELY EVALUATE THIS METHOD. EXCELLENT RESULTS WERE OBTAINED WITH
617 LOLIUM	PERENNE	RYEGRASS	ANTHRISCUS	SCANDICINA	BUR CHERVIL	REMOVE BUR CHERVIL	SCREEN		POOR			R5 AND R5 1/2 INDENT DISKS.
							FRICTION		FAIR			
							INDENT DISC	R5 OR R5 1/2 DISK	GOOD	99	100	MAIN A DOUBLE DOOGEDURE HAS DECOMMENDED
536 LOLIUM	PERENNE	PERENNIAL RYEGRASS	BROMUS BROMUS	SECALINUS SECALINUS	CHESS	REMOVE CHESS.	AIR-SCREEN INDENT DISC	SEQ.7 1/2 RD OVER 4X18 OVER 20X20 SEQ.R-6 OR M DISC				THE ABOVE PROCEDURE WAS RECOMMENDED TO SUBMITTER BASED ON EQUIPMENT HE HAD. MATERIAL HELD ON THE 20X20 WIRE MESH SCREEN WOULD GO TO THE INDENT DISC.
			BROMUS	SECALINUS	CHESS		INDENT DISC	SEQ.R-6 OR M DISC				IT WAS TOO DIFFICULT TO DISTINGUISH
486 LOLIUM	PERENNE	PERENNIAL RYEGRASS	FESTUCA DACTYLIS	ARUNDINACEA GLOMERATA	TALL FESCUE ORCHARDGRASS	REMOVE ORCHARDGRASS AND TALL FESCUE	SCREEN	1/22 ROUND HOLE	POOR			THE CONTAMINANT SEEDS FROM THE SMALL RYEGRASS TO EVALUATE THE TEST. ONLY TWO CONTAMINANT SEEDS (ONE OF EACH TYPE) WERE IN THE SAMPLE TESTED.
												BASED ON PAST REPORTS, SCEENS (1/20
		PERENNIAL										ROUND-HOLE, 6X21 SLOT AND 18X18 SQUARE-HOLE) WERE RECOMMENDED TO THE
574 LOLIUM	PERENNE	RYEGRASS	FESTUCA		FINE FESCUE	REMOVE FINE FESCUE						SUBMITTER
	PERENNE	PERENNIAL RYEGRASS	FESTUCA	RUBRA	FINE FESCUE	REMOVE FINE FESCUE	SCREEN	6x24 WW		95	THIS WAS MATERIAL THAT WAS ACCIDENTALLY MIXED. IT CONTAINED 5.5 FIRE FESCUE BY WEIGHT. SUBMITTER NEEDED 0.5%. SCREENS WERE TESTED AND RESULTS WILL BE FORWARDED.	
			FESTUCA	RUBRA	FINE FESCUE		SCREEN	22X22 WW		95	0.000.000.000.000.000	
746 LOLIUM	PERENNE	PERENNIAL RYEGRASS	INERT		INERT	REMOVE INERT MATERIAL: MUD CLODS, ROCKS, PLANT MATERIAL, ETC.	AIR-SCREEN	SEQ. 1/22X1/2 TOP SCREEN, 1/22" RD HOLE BOTTOM SCREEN	GOOD	84 64	SAMPLE WAS REJECT MATERIAL FROM AN AIR-SCREEN/INDENT DISK CLEANING SEQUENCE 94 PERFORMED BY PROCESSOR.	FINAL RYEGRASS PURITY WAS 99% WITH A CROP LOSS OF 9.9% FOR THE ENTIRE SEQUENCE.
							INDENT					
			INERT		INERT		CYLINDER	SEQ. #7 INDENT CYL.	GOOD	94 84	99	SAMPLE COULD BE IMPROVED TO MEET
750 LOLIUM	PERENNE	FINELEAF PERENNIAL RYEGRASS	INERT		INERT	REMOVE INERT MATERIAL	PNEUMATIC		GOOD	90	SAMPLE HAD NOT PASSED CERTIFICATION.	SAMPLE COULD BE IMPROVED TO MEET CERTIFICATION REQUIREMENTS WITH ONLY PNEUMATIC SEPARATION AND CROP LOSS OF ABOUT .5%.
		PERENNIAL				REMOVE INERT						USE AIR SCREEN TO REMOVE INERT (CHAFF
1027 LOLIUM	PERENNE	RYEGRASS PERENNIAL	INERT		CHAFF	MATERIAL REMOVE STRAW AND SOIL FROM VACUUM	AIR-SCREEN	#6 TOP, 4X26 BOTTOM #16 RH,22X22 WW,#8	GOOD	85 90	99 SEPARATION FOR A BREEDER LOT. THIS WAS A SAMPLE OF RECLAIMED SEED THAT WAS VACUUM HARVESTED AFTER NORMAL	USE SCREENS AIR AND INDENT TO REMOVE
1077 LOLIUM	PERENNE	RYEGRASS	INERT		STRAW	HARVESTED RYEGRASS	SEQUENCE	RH, 6X32 WW	GOOD	3.5	WIN	RYEGRASS SEED.

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR	FP NOTES	CONCLUSION
			INERT		SOIL		SEQUENCE	8MM INDENT, 2.75 MM INDENT, AIR	GOOD			71	
						DEMONIE GEED FORM							USE A SEQUENCE OF 16/64RH, 8/64RH,
		PERENNIAL				REMOVE SEED FORM VACUUMED STRAW FOR		SEQ 16/64RH,				A SEQUENCE OF 16/64 AND	4X30WW, AIR AND 8MM INDENT CYLINDER TO REMOVE STRAW FROM VACUUM HARVESTEI
1248 LOLIUM	PERENNE	RYEGRASS	INERT		STRAW	RESEARCH PURPOSES	SCREEN	8/64RH,4X30WW	GOOD			8/64RH SCALP	RYEGRASS
			INERT		STRAW		PNEUMATIC INDENT	IN AIR SCREEN	GOOD				
			INERT		STRAW		CYLINDER	8MM TO LIFT CROP	GOOD				
													THE VIBRATOR SEPARATOR DID A VERY
		PERENNIAL				REMOVE COMMON		3/4"-80 GRIT				LENGTH SEPARATION WAS NOT FEASIBLE BECAUSE OF IDENTICAL	GOOD SEPARATION YIELDING A 99.8% PURE SAMPLE WITH A SHRINKAGE OF 9% OF THE
161 LOLIUM	PERENNE	RYEGRASS	LOLIUM		COMMON RYEGRASS	RYEGRASS	VIBRATORY	SANDPAPER	GOOD			100 SEED DIMENSIONS.	LOT.
			LOLIUM		COMMON RYEGRASS COMMON RYEGRASS		PNEUMATIC ELECTROSTATIC		POOR				
			LOLIUM		COMMON RIEGRASS		ELECTROSTATIC		POOR			SUBMITTER HAD USED SLOTTED	IT WAS CONCLUDED THAT THE SUBMITTER
						REMOVE ANNUAL						HOLE SCREENS, BUT WANTED TO	COULD DO A BETTER JOB WITH HIS
591 LOLIUM	PERENNE	PERENNIAL RYEGRASS	LOLIUM	ANNUA	ANNUAL RYEGRASS	RYEGRASS WITH ROUND HOLE SCREENS.	SCREEN	1/17 ROUND-HOLE	POOR			FIND OUT IF ROUND HOLE SCREENS WOULD BE BETTER.	SLOTTED HOLE SCREENS THAN MIGHT BE DONE WITH ROUND HOLE SCREENS.
331 2021011	I DICDINID	FINELEAF	2021011	1444011	IMMORID REDUCEDO	HODE CONDENS.	DEREBU	1/11 ROOMS HOLL	10010			BEREZENS WOODS DE BETTER.	DONE WITH ROOMS HOLD SCREENS.
7.47 - 0		PERENNIAL RYEGRASS				REMOVE ANNUAL BLUEGRASS		#8 ROUND TOP, 1/22				PRODUCT WAS RUN TWICE OVER	
747 LOLIUM	PERENNE	RYEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	BLUEGRASS	AIR-SCREEN	ROUND BOTTOM	GOOD			THE AIR SCREEN. INDNET CYLINDERS WITH 8/64 TO	
												12/64 POCKETS WILL REMOVE A	
956 LOLIUM	PERENNE	PERENNIAL RYEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE ANNUAL BLUEGRASS	INDENT CYLINDER	8/64 - 12/64	GOOD			VERY LARGE PERCENTAGE OF THE ANNUAL BLUEGRASS	USE INDENT CYLINDER WITH 8/64 - 12/64
930 LOLIOM	PERENNE	RIEGRASS	FOR	ANNOA	ANNUAL BLUEGRASS	BLUEGRASS	CILINDER	8/04 - 12/04	GOOD			SUBMITTER REQUESTED THAT WE	POCREI
												MEASURE CROP AND CONTAMINANT	
												SEEDS. TWENTY POA SEEDS WERE MEASURED WITH AN AVERAGE	
												LENGTH OF .091". FIVE	
						DETERMINE LENGTHS OF						THOUSAND CROP SEEDS WERE	
1124 LOLIUM	PERENNE	PERENNIAL RYEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	PERENNIAL RYEGRASS AND ANNUAL BLUEGRASS						MEASURED WITH AND AVERAGE LENGTH OF	
1121 2021011	I DICDINID	REPORTION	1 011	1444011	THAT BEODOIGIOS	THE THROTE BEOLUTION						THIS WAS MATERIAL THAT	
												REQUIRED RECLEANING BECAUSE	
												OF POA ANNUA PRESENT. THE SUBMITTER WAS GOING TO	
												PURCHASE NEW CYLINDERS AS A	
		TURF TYPE PERENNIAL					INDENT					RESULT OF THESE TESTS. TWO TYPES OF MATERIAL WERE	
1126 LOLIUM	PERENNE	RYEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE POA ANNUA	CYLINDER	3.00MM				TESTED. T	
							INDENT						
			POA	ANNUA	ANNUAL BLUEGRASS		CYLINDER INDENT	3.25MM				54/	
			POA	ANNUA	ANNUAL BLUEGRASS		CYLINDER	3.50MM				LB	
							INDENT					27/	
			POA	ANNUA	ANNUAL BLUEGRASS		CYLINDER INDENT	3.75MM				LB	
			POA	ANNUA	ANNUAL BLUEGRASS		CYLINDER	4.00MM					
													WOVEN WIRE SCREENS REMOVED A LARGE PERCENTAGE OF THE RATTAIL FESCUE WITH
													VARING LOSS. CONSIDERED BEST FOR
						REMOVE RATTAIL						NEEDS CERTIFICATION GRADE.	THIS SEPARATION WAS THE 4X30 WW WITH
973 LOLIUM	PERENNE	PERENNIAL RYEGRASS	VULPIA	MYUROS	RATTAIL FESCUE	FESCUE TO CERTIFIED QUALITY	SCREEN	4X32 WW	GOOD	98	66	ORIGINAL LOT IS 78KLBS WITH	THE HIGHEST REMOVAL OF VULPIA AND SECOND LOWEST LOSS.
			VULPIA	MYUROS	RATTAIL FESCUE	X	SCREEN	4X30 WW	BEST	98	95	100	
			VULPIA VULPIA	MYUROS MYUROS	RATTAIL FESCUE		SCREEN SCREEN	4X28 WW 4X26 WW			90		
1188 LOLIUM	PERENNE	RYEGRASS	VULPIA	MIURUS	RATIALL RESCUE		SCREEN	4A20 WW		96	95	100	
		ANNUAL											
838 LOLIUM	PRATENSE	RYEGRASS	FESTUCA	ARUNDINACEA	TALL FESCUE	REMOVE TALL FESCUE.	VELVET ROLL						NO RESULTS AVAILABLE. A #R6 INDENT DISC GAVE THE BEST
							INDENT	SPECIAL INDENT,					RESULTS, LIFTING 54% OF THE LOT WITH
8 LOLIUM		RYEGRASS	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS.	CYLINDER	.221"X.025"	POOR		0.0	100	A PURITY OF 99.97%.
		 	AGROPYRON AGROPYRON	REPENS REPENS	QUACKGRASS QUACKGRASS	+	INDENT DISC PNEUMATIC	#6R DISC	FAIR POOR	98	90	100	
			AGROPYRON	REPENS	QUACKGRASS		ELECTROSTATIC		POOR				
		RUSSIAN WILD										SEED MEASUREMENTS INDICATE THAT A .049" SLOTTED SCREEN	SCREENS ARE THE MOST EFFECTIVE
122 LOLIUM		RYEGRASS	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS	SCREEN	6X18		60	92	92 SHOULD HOLD 45% OF THE	SCREENS ARE THE MOST EFFECTIVE SEPARATING DEVICE FOR THIS PROBLEM.
			AGROPYRON	REPENS	QUACKGRASS		SCREEN	6X16			100		
			AGROPYRON AGROPYRON	REPENS REPENS	QUACKGRASS QUACKGRASS		PNEUMATIC DRAPER		POOR		-		
			AGROPYRON	REPENS	QUACKGRASS		VIBRATORY		POOR				
			AGROPYRON	REPENS	QUACKGRASS		ELECTROSTATIC		POOR				
													BEST RESULTS WERE WITH THE V6-1/2 INDENT DISC. AFTER TWO TRIALS, AN
													AVERAGE OF 84% OF THE LOT WAS
360 LOLIUM		PELO RYEGRASS	ACRODADOM	REPENS	QUACKGRASS	REMOVE QUACKGRASS	INDENT DISC	V6-1/2 DISC	2005		95		SALVAGED WITH 95% OF THE QUACKGRASS
200 POPTOM		RIEGRASS	AGROPYRON AGROPYRON	REPENS REPENS	QUACKGRASS QUACKGRASS	REMOVE QUACKGRASS	VIBRATORY	VO-I/Z DISC	GOOD POOR		95		REMOVED.
			AGROPYRON	REPENS	QUACKGRASS		ELECTROSTATIC		POOR				
		-	AGROPYRON AGROPYRON	REPENS REPENS	QUACKGRASS QUACKGRASS		PNEUMATIC OTHER	BOUNCE PLATE	POOR	1	-		
			AGROFIKUN	KEFENO	ZOMCKOKMOD		OIREK	DOUNCE PHAIR	FUUR				THE PNEUMATIC SEPARATOR DOES AN
													EXCELLENT JOB OF THIS SEPARATION.
						REMOVE SLENDER							SIMILAR RESULTS MIGHT BE OBTAINED WITH CLOSE ADJUSTMENT OF THE AIR IN
556 LOLIUM		RYEGRASS	ALOPECURUS	MYOSUROIDES	SLENDER FOXTAIL	FOXTAIL.	PNEUMATIC		GOOD		100	100	AN AIR-SCREEN MACHINE.
			ALOPECURUS	MYOSUROIDES	SLENDER FOXTAIL		OTHER	CHUTE SEPARATOR	FAIR		87		
			ALOPECURUS	MYOSUROIDES	SLENDER FOXTAIL		OTHER	BOUNCE PLATE	POOR		83		

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP	CR FP	NOTES	CONCLUSION
				ALOPECURUS	MYOSUROIDES	SLENDER FOXTAIL		SCREENS		POOR				
508 1	LOLIUM		MANHATTAN RYEGRASS	ANTHOXANTHUM	ODORATUM		REMOVE SWEET VERNALGRASS.	OTHER	BOUNCE PLATE:1 PASS, 32 DEG.					75% OF THE LOT WAS SALVAGED WITH A VERNAL COUNT OF 70 PER POUND. POOR BOUNCE MATERIAL WAS NOT RERUN.
5971	LOLIUM		GULF RYEGRASS	ANTHOXANTHUM	ODORATIM	SWEET VERNALGRASS	REMOVE SWEET VERNALGRASS	PNEUMATIC	SEQ. 6" ESM				PNEUMATIC SEPARATION FOLLOWED BY VELVET ROLLS, SCREENS, OR INCLINED CHUTE DID NOT WORK.	PNEUMATIC SEPARATION FOLLOWED BY VIBRATION SEPARATION DID A VERY GOOD JOB OF REMOVING THE VERNALGRASS, BUT THE LOW CAPACITY WOULD BE A PROBLEM.
5671	POPTOM		RIEGRASS	ANTHOXANTHUM	ODORATOM	SWEET VERNALGRASS	VERNALGRASS	VIBRATORY	SEQ. 180 GRIT	GOOD			INCLINED CHOIL DID NOT WORK.	THE LOW CAPACITY WOULD BE A PROBLEM.
							REMOVE SWEET							THE VIBRATOR PERFORMED VERY WELL RECOVERING 95% OF THE ORIGINAL SAMPLE AT 99.9% PURITY. THE VELVET ROLLS SHOWED PROMISE; CROP LOSS WAS HIGH, BUT RERUNNING THE REJECT FRACTION
57 1	LOLIUM		RYEGRASS	ANTHOXATUM	ODORATUM	SWEET VERNALGRASS	VERNALGRASS	VIBRATORY	ROUGH SANDPAPER DECK			100 100		MIGHT SALVAGE MORE.
				ANTHOXATUM ANTHOXATUM	ODORATUM ODORATUM	SWEET VERNALGRASS SWEET VERNALGRASS		VELVET ROLL ELECTROSTATIC	35 RPM, 32.5 DEG	FAIR POOR	98	100 100		
				ANTHOXATUM	ODORATUM	SWEET VERNALGRASS		DRAPER		FAIR				
				ANTHOXATUM	ODORATUM	SWEET VERNALGRASS		PNEUMATIC		POOR				
				ANTHOXATUM	ODORATUM	SWEET VERNALGRASS		AIR-SCREEN		POOR				
				ANTHOXATUM	ODORATUM	SWEET VERNALGRASS		OTHER	AIR JET SEPARATOR	POOR				
437 1	LOLIUM		MANHATTAN RYEGRASS	ANTHOXATUM ANTHOXATUM	ODORATUM ODORATUM	SWEET VERNALGRASS SWEET VERNALGRASS	REMOVE SWEET VERNALGRASS	PNEUMATIC VIBRATORY		FAIR FAIR				ALL TRIALS, PNEUMATIC, VIBRATOR, INCLINED CHUTE, WERE ONLY PARTIALLY SUCCESSFUL. THE VELVET ROLL MIGHT BE ANOTHER ONE TO TRY.
				ANTHOXATUM	ODODATUM	SWEET VERNALGRASS		OTHER	INCLINED CHUTE	FAIR				
66 1	LOLIUM		RYEGRASS	ANTHRISCUS ANTHRISCUS		CHERVIL CHERVIL	REMOVE CHERVIL, WEED SEEDS AND INERT MATERIAL.	ELECTROSTATIC SCREENS	20KV, VERT-9.5, HOR- 7, ROT-0	GOOD POOR	97	70 99		BEST SEPARATION WAS OBTAINED WITH THE ELECTROSTATIC SEPARATOR WHERE 82% OF THE RYEGRASS WAS RECLAIMED AT 99% PURITY. MORE RYEGRASS MIGHT BE RECLAIMED BY RUNNING THE REJECT FRACTIONS THROUGH THE SEPARATOR AGAIN AT DIFFERENT SETTINGS.
				ANTHRISCUS		CHERVIL		AIR-SCREEN		POOR	_			
				ANTHRISCUS		CHERVIL		VIBRATORY		POOR				
				ANTHRISCUS		CHERVIL		DRAPER		POOR				
				ANTHRISCUS		CHERVIL		MAGNETIC		POOR				
				ANTHRISCUS		CHERVIL		VELVET ROLL		POOR				
163 1	LOLIUM		COMMON RYEGRASS			BUR BEAKCHERVIL BUR BEAKCHERVIL	REMOVE BUR BEAKCHERVIL	PNEUMATIC	R5 DISC, 50RPM	GOOD POOR	79	97 99		THE R5 INDENT DISC GAVE A SATISFACTORY SEPARATION REDUCING CHERVIL FROM 20% TO .6% WITH 30% SHRINKAGE OF ORIGINAL LOT.
				ANTHRISCUS		BUR BEAKCHERVIL		DRAPER		POOR				
				ANTHRISCUS ANTHRISCUS		BUR BEAKCHERVIL BUR BEAKCHERVIL		VIBRATORY ELECTROSTATIC		POOR POOR				
			TETRAPLOID	THITTHETOCOD	DCIMDICIMI	DOI: DEIMCHERTE		DDDCTRODTHTTC		2001				THE 1/20X1/2 SCREEN SALVAGED 95% OF
307	LOLIUM		RYEGRASS	AVENA	FATUA	WILD OATS	REMOVE WILD OATS.	SCREEN	1/20X1/2	GOOD				THE LOT WITH VERY LITTLE OR NO OATS.
					FATUA	WILD OATS		PNEUMATIC		POOR				
					FATUA	WILD OATS		VIBRATORY		POOR				
				AVENA	FATUA	WILD OATS	REMOVE RATTAIL FESCUE, HAIRY CHESS, FRENCH PINK, SLOUGH GRASS, OTHER WEED SEEDS AND INERT	OTHER	RESILIENCE 1/12 TOP OVER 6X26	POOR			BOTH SCREENS HAD 1/8" DAMS ON	USING THE AIR-SCREEN MACHINE, 78.5%
55 1	LOLIUM		RYEGRASS	BROMUS	COMUTATUS	HAIRY CHESS	MATERIAL.	AIR-SCREEN	BOTTOM	GOOD		75	THEM.	OF THE ORI
				VULPIA	MYUROS	RATTAIL FESCUE		AIR-SCREEN	1/12 TOP OVER 6X26 BOTTOM 1/12 TOP OVER 6X36	GOOD		65		
				DIANTHUS		FRENCH PINK		AIR-SCREEN	BOTTOM	POOR		20		
						ar arrayan s a -			1/12 TOP OVER 6X36	L		30		
E40 1	LOLIUM		TETRAPLOID	BECKMANNIA		SLOUGHGRASS	REMOVE CHESS AND	AIR-SCREEN SCREEN	BOTTOM SEQ.4X20 WIRE	FAIR		30	SCREEN THROUGH A 4X28 SCREEN. THIS REDUCED CROP YIELD FROM	TO OBTAIN THESE RESULTS, THE SEEDS MUST BE UPENDED BY DAMS ON THE SCREENS OR SUFFICIENT AGITATION OF
548	DOTTOM.		RYEGRASS	BROMUS BROMUS		CHESS	OTHER WEED SEEDS	SCREEN	SEQ.4X20 WIRE SEQ.1/14 ROUND-HOLE		-+	100	89.5% TO 88.57%.	THE SCREENS.
										3000		100		THE BEST RESULTS WERE OBTAINED BY SCREENING THE MATERIAL, THEN USING
	LOLIUM		RYEGRASS RYEGRASS	BROMUS	COMUTATUS	HAIRY CHESS DOWNY BROME	REMOVE HAIRY CHESS.	SCREEN SCREEN	SEQ. 4X20 WIRE MESH SEQ. 6X28 WIRE MESH					THE PRECISION GRADER. THE MATERIAL WAS TESTED ON A NUMBER OF SEPARATING MACHINES, BUT RESULTS WERE INCONCLUSIVE DUE TO THE LOW CONCENTRATION OF CONTAMINANT (9 SEEDS/LB).
	LOLIUM		TETRAPLOID RYEGRASS		ECHINATUS	BRISTLY DOGTAIL	REDUCE BRISTLY DOGTAIL TO .25% OF LESS. THIS LOT WAS SCREENINGS.	OTHER	SEQ. PRECISION GR. 4 1/2 RD HOLE SHELL	POOR		92		NO TRIALS WERE SUCCESSFUL IN REDUCING BRISTLY DOGTAIL TO .25%. THE BEST THAT COULD BE DONE WAS WITH THE AIR- SCREEN MACHINE WHICH REDUCED THE DOGTAIL TO .44%.
353	DODIUM		KIBURASS	CINUSURUS	PCUINAIOS	DRIGIDI DOGIALE	SCREENINGS.	OIREK	8-1/2 OVER	POUR	+	92		POGINIE IO .445.
				CYNOSURUS	ECHINATUS	BRISTLY DOGTAIL		AIR-SCREEN	1/17W/DAMS	POOR		100		
$oxed{\Box}$						BRISTLY DOGTAIL		GRAVITY		POOR	[
				CYNOSURUS	ECHINATUS ECHINATUS	BRISTLY DOGTAIL BRISTLY DOGTAIL		PNEUMATIC OTHER	DOUNCE DI AMP	POOR	-			
				CYNUSURUS	ECHINATUS	BRISTLY DOGTAIL		OTHER	BOUNCE PLATE	POOR			I.	1

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY I	P CR	FP	NOTES	CONCLUSION
							REMOVE ORCHARDGRASS		SEO. 4X22 OVER 1/21,					SUBMITTER WANTED ORCHARDGRASS REMOVED AS COMPLETELY AS POSSIBLE EVEN WITH
518	LOLIUM		RYEGRASS	DACTYLIS	GLOMERATA	ORCHARDGRASS	WITH SCREENS.	SCREENS	2 PASSES		97 70	100		LARGE CROP LOSS AND THIS WAS DONE.
				DACTYLIS	GLOMERATA	ORCHARDGRASS		SCREEN	SEQ. 4X24 OVER 1/21	1	00 97	100		ALTERNATIVE DV. TANDAMIN D. T.O. DOLLOWED DV.
752			DVEGDAGG	ECHINOCHLOA	CRUSGALLI		REMOVE BARNYARD	INDENT DISC	SEQUENCE, V5 SIZE DISK	GOOD	95 78		SUBMITTER REQUESTED CROP LOSS OF LESS THAN 5% AND QUANTITY OF BARNYARD GRASS LOWERED	CLEANING BY INDENT DISK FOLLOWED BY SCREENING LOWERED CONTAMINANT LEVEL ALMOST TO THAT SPECIFIED BY SUBMITTER. CROP LOSS WAS WITHIN SPECIFICATION. LARGER SIZES OF INDENTS REMOVE MORE CONTAMINANT BUT WITH GREATER CROP LOSS.
/53	LOLIUM		RYEGRASS	ECHINOCHLOA	CRUSGALLI	BARNYARD GRASS	GRASS	INDENT DISC	SEQ.1/2"X1/24"	GOOD	95 /6	99	FROM 4.73% 10 .3%.	WITH GREATER CROP LOSS.
				ECHINOCHLOA	CRUSGALLI	BARNYARD GRASS		SCREEN	SLOTTED SCREEN	GOOD	99 28	100		
				ECHINOCHLOA	CRUSGALLI	BARNYARD GRASS		INDENT DISC	V5-1/2 INDENT DISK	GOOD	95 95	100		
540	LOLIUM		ETON RYEGRASS	ERGOT		ERGOT	REMOVE ERGOT.	SCREEN	6X20 SLOT	POOR	90			NO TRIALS COULD BE CONSIDERED SUCCESSFUL. THE ERGOT IS IN THE SAME SIZE RANGE AS THE RYEGRASS AND THERE WAS SOME ERGOT ALWAYS LEFT IN THE FINAL FRACTIONS.
				ERGOT		ERGOT		SCREEN	SEQ.	FAIR				
59	LOLIUM		RYEGRASS	ERGOT	RUBRA	ERGOT		PNEUMATIC INDENT DISC	SEQ.R4 DISC, 55RPM	FAIR				THE INDENT DISC REMOVED 27% OF THE ORIGINAL SAMPLE CONTAINING MANY OF THE SMALL WEED SEEDS. THE REMAINDER WAS PUT THROUGH THE AIR-SCREEN MACHINE WHICH SALVAGED 31% OF THE ORIGINAL SAMPLE AT 98% PURITY.
				VULPIA	MYUROS	RATTAIL FESCUE		AIR-SCREEN	SEQ.6X18 OVER 6X24 W/DAMS	FAIR	56 95	98		
54	LOLIUM		RYEGRASS	HORDEUM	VULGARE	BARLEY	REMOVE BARLEY, WILD OATS, CULTIVATED OATS, RATTAIL FESCUE, OTHER WEEDS, AND INERT MATERIAL.		1/14 RD OVER 4X30 WIRE	GOOD	100			THE AIR SCREEN MACHINE REMOVED 100% OF THE BARLEY AND OATS. OTHER WEED SEEDS MAY POSSIBLY BE REMOVED BY THE INDENT DISC. 84.3% OF THE ORIGINAL SAMPLE WAS RECLAIMED AT A PURITY OF 98.9%. ORIGINAL PURITY WAS 91%.
				AVENA	FATUA	WILD OATS		AIR-SCREEN	1/14 RD OVER 4X30 WIRE	GOOD	100	100		
									1/14 RD OVER 4X30					
				AVENA	SATIVA	CULTIVATED OATS		AIR-SCREEN	WIRE 1/14 RD OVER 4X30	GOOD	100	100		
				VULPIA	MYUROS	RATTAIL FESCUE		AIR-SCREEN	WIRE	POOR				
				INERT		INERT		AIR-SCREEN	1/14 RD OVER 4X30 WIRE	GOOD	90			
41	LOLIUM		RYEGRASS	LINUM	USITATISSIMUM		REMOVE FLAX.	PNEUMATIC	HIKE	POOR	30			BEST RESULTS OBTAINED WITH 1/12 SCREEN OVER 6X26 SCREEN OR AIR-SCREEN MACHINE WITH 1/12 SCREEN WITH DAMS TO UPEND GRASS.
				LINUM	USITATISSIMUM	FLAX		VELVET ROLL		POOR				
				LINUM	USITATISSIMUM	FLAX		AIR-SCREEN	SEQ. 1/12 SCREEN ON TOP	GOOD				
									SEQ. #8 OR #9 ON					
				LINUM	USITATISSIMUM USITATISSIMUM	STEMS FLAX		AIR-SCREEN GRAVITY	TOP, 1/12 ON BOTTOM	GOOD POOR				
422	LOLIUM		PELO RYEGRASS	LINUM	MULTIFLORUM	FLAX	REMOVE ANNUAL RYEGRASS	SCREENS	1/12 OVER 6X26	GOOD				THE PNEUMATIC AND VIBRATOR SEPARATORS DID THE BEST, REMOVING A HIGH PERCENTAGE OF ANNUAL RYEGRASS, BUT NOT QUITE ALL.
122	BOBION		KTEGKASS	LOLIUM	MULTIFLORUM	ANNUAL RYEGRASS	KIEGKASS	PNEUMATIC	1/12 OVER ONZO	FAIR				NOT QUITE ABB.
				LOLIUM	MULTIFLORUM MULTIFLORUM	ANNUAL RYEGRASS ANNUAL RYEGRASS		OTHER VELVET ROLL	BOUNCE PLATE	POOR POOR				
			PENNFINE	DODITON	MODITI BOROM	ANNOAD KIEGKASS	REMOVE ANNUAL BLUEGRASS AND	VEHVET ROLL		FOOR				SCREENS DID NOT HELP BECAUSE COMPLETE IDENTIFICATION OF THE SEEDS IN THE
567	LOLIUM		RYEGRASS	LOLIUM			TETRAPLOID RYEGRASS.	SCREENS	ROUND-HOLE	POOR				RESULTING FRACTIONS WAS NOT POS
								INDENT CYLINDER	SEQ. #8 #10 TRIED	FAIR				
				POA	ANNUA	ANNUAL BLUEGRASS		SCREENS	SEQ.4X22 AND 4X24					
68	LOLIUM		RYEGRASS	MADIA	SATIVA	CHILEAN TARWEED	REMOVE CHILEAN	AIR-SCREEN	1/17 OVER 1/20 W/3	GOOD	96 75	99		BEST RESULTS OBTAINED WITH AIR-SCREEN MACHINE USING 1/17 TOP SCREEN AND 1/20 BOTTOM SCREEN, EACH WITH 3 DAMS. 86% OF THE ORIGINAL LOT WAS RECLAIMED AT 99% PURITY.
				MADIA	SATIVA	CHILEAN TARWEED		PNEUMATIC		POOR				
		TETRAPLOID RYEGRASS		MADIA	SATIVA	CHILEAN TARWEED		VIBRATORY		POOR				
516	LOLIUM	AT BOARDS	RYEGRASS	MISC	MISC		REMOVE BROKEN WHEAT, PIGWEED, DOCK, LAMBSQUARTER, SLOUGHGRASS, VELVET GRASS, SMUT, INERT AND OTHER SMALL CONTAMINANTS.		SEQ. 1/15 ROUND-HOLE					A SCREEN REMOVED LARGER CONTAMINANTS WITH NEGLIGIBLE CROP LOSS. A #7 INDENT CYLINDER REMOVED MOST OF THE SHORT CONTAMINANTS WITH ABOUT 5% CROP SHRINKAGE. THE SUBMITTER TOOK FRACTIONS FOR PURITY TESTS.
								INDENT						
				MISC	MISC			CYLINDER	SEQ. #7 INDENT	GOOD			SAMPLE WAS LIFTED FRACTION	
487	LOLIUM		RYEGRASS	POA POA		BLUEGRASS BLUEGRASS BLUEGRASS	REMOVE BLUEGRASS	INDENT CYLINDER INDENT DISC PNEUMATIC	#7 CYLINDER 4R OR 4 1/2R DISCS	FAIR FAIR POOR			FROM INDENT CYLINDER.	THE INDENT CYLINDER AND DISC SHOWED PROMISE. THE PNEUMATIC SEPARATOR WAS UNSATISFACTORY.

NO CROP GENUS	CROP SPECIES CROP COM	MON CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FP NOTES	CONCLUSION
780 LOLIUM	RYEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE ANNUAL BLUEGRASS AND BARNYARD GRASS	SCREEN	SEQ. 1/23 ROUND HOLE	GOOD			A 1/23 ROUND HOLE SCREEN ALLOWED THE BLUEGRASS TO PASS THROUGH AND A V4 INDENT DISK LIFTED THE BARNYARD GRASS LEAVING THE RYEGRASS.
		ECHINOCHLOA	CRUSGALLI	BARNYARD GRASS		INDENT DISC	SEQ. V4	GOOD			
					REMOVE UNIDENTIFIED CARROT-LIKE SEED, IMMATURE CANARYGRASS, STEMS, DIRT, BROKEN						Samples were sent to submitter for
265 LOLIUM	RYEGRASS	TRASH		LARGE TRASH	RYEGRASS, ETC.	SCREEN	SEQ.6X32	GOOD			evaluation.
		TRASH		TRASH BROKEN RYEGRASS		INDENT DISC	SEQ.R4 DISC SEQ.V4-1/2 DISC	GOOD			
		TRASH		TRASH		PNEUMATIC	SEQ. V4 1/2 DISC	POOR			
	DERBY				REMOVE SMARTWEED, LAMBSQUARTER AND					THIS LOT WAS STRAIGHT FROM GRAIN BIN AND HEAVILY	THIS MIXTURE RESPONDED VERY WELL TO SCREENING, THEN AIR SEPARATION, THEN
588 LOLIUM	RYEGRASS	VARIOUS		VARIOUS	OTHER CONTAMINANTS.	SCREEN	SEQ. SCALPING SCREEN			CONTAMINATED.	INDENT CYLINDER.
						PNEUMATIC INDENT	SEQ. 6" ESM				
						CYLINDER	SEQ. #8 CYLINDER	GOOD			
545 LOLIUM	RYEGRASS	VULPIA	MYUROS	RATTAIL FESCUE	REMOVE RATTAIL FESCUE	SCREEN	4X28 WIRE MESH	GOOD		100	A 4X28 WI
		VODETA	MICKOS	KATTAID PESCOE	SEED BLENDING TESTS:	BCREEN	TAZO WIKE MESH	GOOD		100	A 4A20 WI
21 LOLIUM	RYEGRASS				SEE ORIGINAL REPORT.					NODULES TO BE SEPARATED BECAUSE OF GREATER NUTRIENT VALUE. STRAW TO BE LENGTH GRADED FOR USE IN PARTICLE	THE SUBMITTER WAS SHOWN SEVERAL SCREENING AND INDENT POSSIBILITIES ALONG WITH AIR CLASSIFICATION. THERE WAS ALSO POTENTIAL FOR THE TWO-SCREEN
483 LOLIUM	RYEGRASS				LENGTH-GRADE STRAW.					BOARD MANUFACTURE.	VERTICAL SCREEN SEPARATOR.
	RYEGRASS				REMOVE ANNUAL BLUEGRASS AND						
488 LOLIUM	(MANHATT	N)			BARNYARDGRASS						CRO
	RYEGRASS				FRACTIONATE FOR						FRACTIONATING TRIALS WERE MADE WITH THREE HAMMERMILLED LOTS OF THE STRAW USING SCREENS, INDENT DISCS, AND PNEUMATIC SEPARATOR. FRACTIONS WERE
529 LOLIUM	STRAW				UTILIZATION.						GIVEN TO SUBMITTER.
1177 LOLIUM	RYEGRASS BIRDSFOO				REMOVE PIGWEED WITH	INDENT	1/15 1/10 1/10 060			THE PNEUMATIC, ELECTROSTATIC VELVET ROLL AND GRAVITY SEPARATORS WERE ALSO TRIED	, IT IS NOT POSSIBLE TO REMOVE PIGWEED FROM BIRDSFOOT TREFOIL WITH THE MODIFIED INDENT CYLINDER DESIGNED FOR
26 LOTUS	CORNICULATUS TREFOIL	AMARANTHUS		PIGWEED	CYLINDER.	CYLINDER	1/17,1/18,1/19,26GA, 24GA	POOR		WITH NO SUCCESS.	REMOVAL OF PIGWEED FROM ALFALFA.
	BIRDSF00				THRESH AND CONDITION GREEENOUSE GROWN		LAH W/#5WW MANTLE,				USE THE SCREENS LISTED TO CONDITION FIELD RUN OR HAND HARVESTED LOTUS
1250 LOTUS	CORNICULATUS TREFOIL	INERT		STEMS, LEAVES	TREFOIL	SCARIFIER	1/2"FRONT OPENING	GOOD			SEED RON OR HAND HARVESTED LOTUS
		INERT		STEMS, LEAVES		SCREENS	16/64 RH SCALP, 1/12 RH TOP, 4X28 WW BOTTOM	GOOD			
		INERT					3.5 ON AIR SCREEN MACHINE	GOOD			
33 LOTUS	BIRDSFOO'		LANCEOLATA	STEMS, LEAVES BUCKHORN PLANTAIN	REMOVE RED CLOVER, WHITE CLOVER AND BUCKHORN PLANTAIN.	PNEUMATIC INDENT CYLINDER	SEQ. #4 CYLINDER	FAIR		SHRINKAGE IN THE INDENT CYLINDER SEEMED EXCESSIVE, BUT A LARGER SAMPLE WOULD MAKE SHRINKAGE MORE FAYORABLE.	WHITE CLOVER WAS REMOVED BY SCREENING AND ALMOST ALL PLANTAIN WAS REMOVED BY INDENT CYLINDER, BUT REMOVAL OF RED CLOVER WAS UNSUCCESSFUL.
33 10103	CORNICODATOS TREFOTE	TRIFOLIUM	PRATENSE	RED CLOVER	BOCKHOKK FERNIAIN.	SCREENS	SEQ. 1/17 OVER 1/24	FAIR		PAVORABLE.	RED CHOVER WAS ONSOCCESSFOR.
		TRIFOLIUM	REPENS	WHITE CLOVER	REMOVE BUCKHORN	SCREENS	SEQ. 1/18 OVER 1/23	FAIR			
1086 LOTUS	BIRDSFOOT	PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN	PLANTAIN, WILD CARROT, BULL THISTLE, OXEYE DAISY	INDENT CYLINDER	1.85 MM POCKET	GOOD		THI	USE 1.85 MM INDENT CYLINDER POCKET TO REMOVE BUCKHORN PLANTAIN, WILD CARROT, BULL THISTLE AND OXEYE DAISY.
		DAUCUS	CAROTA	WILD CARROT		INDENT CYLINDER	1 05 101 000000				
						INDENT	1.85 MM POCKET	GOOD			
		CIRSIUM CHRYSANTHEMU	VULGARE	BULL THISTLE		CYLINDER INDENT	1.85 MM POCKET	GOOD			
		M	LEUCANTHEMUM	OXEYE DAISY		CYLINDER	1.85 MM POCKET	GOOD			
											THE MAGNETIC, FRICTION, AND VIBRATOR SEPARATORS ARE CAPABLE OF REMOVING A HIGH PERCENTAGE OF SOIL PARTICLES IN THIS SAMPLE WITH MINIMAL CROP LOSS. THE VELVET ROLL REMOVED SOMEWHAT LESS SOIL WITH HIGHER CROP LOSS.
833 LOTUS	CORNICULATUS TREFOIL	SOIL		SOIL	REMOVE SOIL PARTICLES	MAGNETIC	TWO PASSES, MAG. FLUID	GOOD			DISSOLVING THE SOIL MAY ALSO POSSIBLE.
	3.5						FINE CARPET, SMOOTH				
		SOIL		SOIL SOIL		FRICTION VIBRATORY	RUBBER BAR CLOTH DECK	GOOD			+
		SOIL		SOIL		VELVET ROLL		FAIR			
		SOIL		SOIL		OTHER	DISSOLVING SOIL IN WATER	FAIR			
	DWARF										THE SUBMITTER RETURNED WITH 225 LBS OF TREFOIL SEED WHICH WAS RUN OVER 1 FT FRICTION SEPARATOR FOUR TIMES AND THEN BLOWN ON PNEUMATIC SEPARATOR
693 LOTUS	CORNICULATUS ENGLISH ARVENSIS TREFOIL	INERT		INERT	REMOVE FIELD MATTER AND INERT MATERIAL	FRICTION	VINYL BAR, SUEDE BELT	GOOD			WHICH REDUCED INERT MATERIAL TO .08% AND REDUCED FIELD MATTER TO .25%.
133 20100	INDIOTO INDIOTO	INERT		INERT	THE THE PATENTAL	PNEUMATIC		FAIR	66		THE THEOREM TIME PARTIES TO . 23%.
		INERT		INERT		VELVET ROLL		FAIR	80		

Part	NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR I	PP NOTES	CONCLUSION
	1227 10000		DIG EDEFOI		Name	GUIDE GODDEY	PIGWEED AND SHEEP	GEOVERNA	0204011 (V24114 AVD	G00D			OF MARSHFIELD LOTUS BREEDER SEED. ZERO TOLERANCE FOR THE WEEDS LISTED. LOT # SBR-83. A SEQUENCE OF SCREENS AND AIR	0.038*ROUND AND 6X32 WOVEN WIRE RECTANGULAR WITH RELATIVELY HIGH AIR VELOCITY REMOVED APPROXIMATELY 90% OF THE PIGWEED AND MUCH OF THE SHRIVELET
Part	1227 10103	PEDUNCULATUS	BIG TREFOIL				SURREL						REMOVED AFFR	SEED. NO REPIEZ WAS FOUND.
Company Comp	960 LOTUS	ULIGINOSIS	BIG TREFOIL	TRIFOLIUM	PRATENSE	REDCLOVER							99	
SA DETECTION OF THE PROPERTY O			KEIZER BIG				CRACKED SEED, BUCKHORN PLANTAIN,							THE PNEUMATIC SEPARATOR WAS EFFECTIVE IN REMOVING CRACKED SEED, BUT NOT
Part	578 LOTUS	ULIGINOSUS	TREFOIL	LOTUS	ULIGINOSUS	BIG TREFOIL								MUCH WEED SEED
19														
Part	796 LOTUS	ULIGINOSUS	LOTUS	RUMEX	ACETOSELLA	SHEEP SORREL	REMOVE SHEEP SORREL	INDENT			99	78 1	#796A. RELATED SAMPLE,	SIMILAR SPECIAL INDENT CYLINDER. 78% OF THE SHEEP SORREL WAS REMOVED WITH A CROP LOSS OF 7% AND FINAL PURITY OF
Property Colors Property C	.,,,	03101110000	10100				REMOVE BUCKHORN,			0005		70 1	SCHALL WISES, TO NOW ZOTT	THE FIRST SEQUENCE, DISREGARDING YIELDS, GAVE THE BEST RESULTS. THE SECOND SEQUENCE IS THE BEST
Company Comp	12 LOTUS		LOTUS	PLANTAGO	LANCEOLATA	BUCKHORN	RED CLOVER							ROLLS IN THE FIRST SEQUENCE.
PARTICIPATION PARTICIPATIO								VELVET ROLL						
Company Comp								ELECTROSTATIC	RAKE-OFF					
								CODERN						
Companies Comp									SEQ.2.RAKE-OFF, 30M- 32DEG-65DEG-COMB. (+)- 5 PASSES					
RECOMMENDATION OF THE PARTY OF THE PARTY SECTION OF				DACTYLIS	GLOMERATA	ORCHARDGRASS		ELECTROSTATIC	32DEG-50DEG-COMB.					
290 LOTUS 1.00 TRIPOLIN PRATISES 25 CLOVES 1.00 TRIPOLIN PRATISES 25 CLOVES				TRIFOLIUM	PRATENSE	RED CLOVER								
Part							ALFALFA, AND						VELVET ROLLS, PNEUMATIC SEPARATOR, ELECTROSTATIC SEPARATOR AND SCREENS WERE	THE BEST JOB, YIELDING 82% OF THE LOTUS WITH ONLY A TRACE OF ALFALFA AND CLOVER. THE DRAPER ALSO DID WELL, BUT LEFT MORE OF THE ALFALFA
MEDICAND MATERIAL	299 LOTUS		LOTUS	TRIFOLIUM	PRATENSE	RED CLOVER	BUCKHORN.			GOOD			UNSATISFACTORY.	AND CLOVER IN THE CROP.
PARTIAGO LANCEGLATA SOCIEGES CLINER CL				MEDICAGO	SATIVA	ALFALFA		CYLINDER	CYLINDER	GOOD				
SECURING SEP LIFE OF MATCHING SERVICE AND SERVICE SERV				DI ANTRACO	I ANGROI ATTA	DUCKHODN				COOD				
NEETINGS STIVA ALFALPA CYLINDER CYLINDE	300 LOTUS		LOTUS				ALFALFA AND	INDENT	1/17 X 26GA.	GOOD			IN PS#299, BUT RESPONDED BETTER TO A SLIGHTLY SMALLER	LIFTED 73% OF THE LOT AS CLEAN LOTUS WITH A TRACE OF CONTAMINANTS. BETTER RESULTS WERE OBTAINED BY SPLITTING THE ORIGINAL LOT ON THE INDENT AND THEN RUNNING THE TWO FRACTIONS ON THE
PREMIAL LUPINUS SPP LUPIN CALLIUM SCALE STRAM CREATED STRA	300 10103		10103	TRIFOLIUM	PRAIDINGE	RED CLOVER	BOCKHOKN.						INDENT SIZE.	DRAFER.
ANCESION LYCOPERSICUN LYCOPERSICUN TOWATO INERT SECRET MATCH IN EACH SEC				MEDICAGO	SATIVA	ALFALFA								
PERENTIAL PERENTAL PERENTIAL P				PLANTAGO	LANCEOLATA	BUCKHORN								
SCREEN BEDSTAM FAIR 1 80 SCREEN BEDSTAM FAIR 80 SCREEN GOOD 90	1212 HINTING	CDD		CALLUM			REMOVE DEDOTTRAN			COOD		1.00	LBS. BEDSTRAW IS NOXIOUS AND THEREFORE NEEDS TO BE REMOVED BELOW DETECTABLE LEVELS. THE INDENT CYLINDER REMOVED ALL DETECTABLE BEDSTRAW IN THE	
SCREEN BEDSTAM FAIR 80 SCREEN BEDSTAM FAIR 8	1212 DUPINUS	SPP	DUPIN	GALLIUM			REMOVE DEDSIRAW				+++		CAMPIE RUN.	
Company Comp			-							FAIR		80		
VELVET ROLL VELVET ROLL POOR LUPINUS LUPINUS LUPINUS LUPINE GALLIUM SCARIFY SEED. SCARI									7MM TO LIFT LUPIN	GOOD		90		
489 LUPINUS LUPINE GALLIUM SCARIFY SEED. BELT THRESHER SANDPAPER ROLLER SCARIFY SEED. SCARIFIER SANDPAPER ROLLER SANDPAPER ROLLER AN AIR SCREEN MACHINE WITH A 6X20 CHER SCREEN GAVE SCREE								VELVET ROLL		POOR				CAMPA DO CHAMPA DO CHAMPA DO CO
SCARIFIER SANDPAPER ROLLER OTHER FLAME AN AIR SCREEN MACHINE WITH A 6X20 SCREEN DROPPED 894 OF THE TOMATO WIT A DAY COUNT OF BARNYARDGRASS. AIR-SCREEN LYCOPERSICON LYCOPERSICUM TOMATO INERT STRAW REMOVE BARNYARDGRASS. AIR-SCREEN ALVEOPERSICON LYCOPERSICUM TOMATO INERT REMOVE DARK INERT MATERIAL REMOVE DARK INERT MATERIAL ELECTROSTATIC SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INERT ROCKS SEQUENCE PNEUMATIC SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INERT ROCKS CAN BE REMOVED FROM TOMATO SEE SCARIFIER TO REMOVE SCARIFIER SANDPAPER ROLLER AN AIR SCREEN MACHINE WITH A 6X20 SCREEN MACHINE WITH A FROM WITH A PNEUMATIC SEPARATOR SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INERT ROCKS CAN BE REMOVED FROM TOMATO SEE SCARIFIER TO REMOVE SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INERT ROCKS CAN BE REMOVED FROM TOMATO SEE SCARIFIER TO REMOVE	489 LUPINUS		LUPINE	GALLIUM			SCARIFY SEED.	BELT THRESHER						
AN AIR SCREEN MATO INET STRAW REMOVE BARNYARDGRASS AIR-SCREEN 6X20 SCREEN AREACY BARNYARDGRASS. AIR-SCREEN AIR-SCREEN AIR-SCREEN AIR-SCREEN AIR-SCREEN A LOW COUNT OF BARNYARDGRASS. THIS SAMPLE RESPONDED OLLY TO THE BLECTROSTATIC SPARADRY. CLEAN SEED HELD A CHARGE LONGER THAN THE INERT MATERIAL BLECTROSTATIC SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INERT OF LYCOPERSICUM TOMATO INET ROCKS SEQUENCE PNEUMATIC SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INERT MATERIAL. MITH A PNEUMATIC SEPARATOR WITH A PNEUMATIC SEPARATOR WITH A PNEUMATIC SEPARATOR WITH A PNEUMATIC SEPARATOR SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INERT MATERIAL. WITH A PNEUMATIC SEPARATOR WITH A PNEUMATIC SEPARATOR								SCARIFIER						
REMOVE DARK INERT LYCOPERSICUM TOMATO INERT LYCOPERSICUM TOMATO INERT LYCOPERSICUM TOMATO INERT LYCOPERSICUM TOMATO INERT ROCKS REMOVE DARK INERT MATERIAL LECTROSTATIC DETERMINE CLEANING SEQUENCE PNEUMATIC SDB GOOD MATERIAL MATERIAL SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INERT ROCKS CAN BE REMOVED FROM TOMATO SEE MATERIAL WITH A PNEUMATIC SEPARATOR SCARIFIER TO REMOVE SCARIFIER TO REMOVE	294 LYCOPERSICON	LYCOPERSICUM	TOMATO	INERT		STRAW	REMOVE BARNYARDGRASS							SCREEN DROPPED 89% OF THE TOMATO WITH A LOW COUNT OF BARNYARDGRASS. THIS SAMPLE RESPONDED ONLY TO THE
976 LYCOPERSICUM TOMATO INET ROCKS SEQUENCE PNEUMATIC SDB GOOD SCREENS WERE ALSO TESTED TO REDUCE ORGANIC INET ROCKS CAN BE REMOVED FROM TOMATO SEE TEST LAH HULLER WITH A PNEUMATIC SEPARATOR TEST LAH HULLER SCARIFIER TO REMOVE														HELD A CHARGE LONGER THAN THE INERT
TEST LAH HULLER SCARIFIER TO REMOVE						POOKS	DETERMINE CLEANING		CDB	GOOD			REDUCE ORGANIC INERT	ROCKS CAN BE REMOVED FROM TOMATO SEED
	5/6 LICOPERSICON	DICOPERSICUM	IUMAIU	INERI		ROCKS	TEST LAH HULLER	PNEUMATIC	מעס	GOOD			PRIBRIAL.	WIIN A PNEUMATIC SEPARATUR
	1008 LYCOPERSICON	LYCOPERSICUM	TOMATO	LYCOPERSICON	LYCOPERSICUM	TOMATO		SCARIFIER						

NO CROP	P GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CI	R FP	NOTES	CONCLUSION
							INFORMATION ON CONDITIONING TOMATO							
1226 LYCOP	PERSICON I	LYCOPERSICUM	TOMATO				SEED			\vdash	\vdash	_	THIS MATERIAL WAS SUBMITTED	
													TO DETERMINE METHODS TO	
			MACADAMIA										REMOVE STONES FROM THE UNHULLED NUTS. BOTH SPIRAL	
1208 MACAD	DAMIA 1	TERNIFOLA	NUTS	INERT		STONES	REMOVE STONES	SPIRAL		GOOD			AND DRAPER WERE TESTE	
				INERT		STONES STONES		DRAPER FRICTION		GOOD	\vdash	+		
200 MEDIO	33.00	CATTIA	ALFALFA		DEDENC	QUACKGRASS	REMOVE QUACKGRASS GROATS							MEASUREMENTS ONLY.
380 MEDIC	LAGO 2	SATIVA	ALFALFA	AGROPYRON	REPENS	QUACKGRASS	REMOVE QUACKGRASS					+		MEASUREMENTS UNLI.
394 MEDIC	ים מי	SATIVA	TOWNSVILLE LUCERNE	AGROPYRON	REPENS	QUACKGRASS	AND LUCERNE WITHOUT HOOK.							MEASUREMENTS ONLY.
331 112220	27100	J.1.1 1 V.1.	Босышь	HOROT TRON	ILLI LING	gonerous	nook:					+	SPIRAL, DRAPER, PNEUMATIC,	THE INDENT CYLINDER WILL REMOVE A
													VELVET ROLLS, ELECTROSTATIC, INDENT DISC, GRAVITY AND HAND	FRACTION WHICH HAS VERY LITTLE ALFALFA AND A HIGH CONCENTRATION OF
0								INDENT	#4 GW TWDDD 26DDW				SCREENS YIELDED	PIGWEED, BUT A HIGH PERCENTAGE OF THE
2 MEDIC	CAGO S	SATIVA	ALFALFA	AMARANTHUS		PIGWEED	REMOVE PIGWEED. REMOVE PIGWEED USING	CYLINDER	#4 CYLINDER, 36RPM	FAIR	\vdash	+	UNSATISFACTORY RESULTS.	PIGWEED IS STILL LEFT IN THE SAMPLE.
							MODIFIED INDENT							
							CYLINDER FABRICATED FROM PERFORATED	INDENT	1/16 AND 1/17X26GA					A 100% PURE LOT WAS ACHIEVED WITH LOSSES RANGING FROM ABOUT 5% TO 2% IN
37 MEDIC	CAGO S	SATIVA	ALFALFA	AMARANTHUS		PIGWEED	SCREEN.	CYLINDER	CYL.	GOOD	10	00 100		THE DIFFERENT TRIALS.
								INDENT	1/16X26GA. CYL,					BEST RESULTS OBTAINED WITH THE 1/16X26GA. INDENT CYLINDER, RERUNNING
71 MEDIC	CAGO S	SATIVA	ALFALFA	AMARANTHUS AMARANTHUS		PIGWEED PIGWEED	REMOVE PIGWEED.	CYLINDER PNEUMATIC	REJECT RERUN	GOOD POOR	81 9	19 100)	THE REJECT FRACTION.
				AMARANTHUS		PIGWEED		VIBRATORY	FINE DECK	FAIR	81 9	35 99		
														THE VIBRATOR DID VERY WELL. 39% OF THE ORIGINAL LOT WAS RECLAIMED WITH
							REMOVE PIGWEED WITH							ABOUT .5% PIGWEED AND LOSS OF ABOUT
123 MEDIC	CAGO S	SATIVA	ALFALFA	AMARANTHUS		PIGWEED	VIBRATOR SEPARATOR.	VIBRATORY	ROUGH 3/8" DECK	GOOD	51 9	19 100		12%. VERY GOOD RESULTS WERE OBTAINED WITH
														THE INDENT CYLINDER (1/17 AND 1/16).
														SINCE SHRINKAGE WAS SO LOW, A SLIGHTLY LARGER SIZE CYLINDER SHOULD
120 MEDIO	33.00	SATIVA	ALFALFA	AMARANTHUS		DICHEED	REMOVE PIGWEED WITH INDENT CYLINDER	INDENT CYLINDER	1/16X26GA CYLINDER, 6.5 RPM	GOOD	99 9	26 10		PROVIDE AN EVEN CLEANER PRODUCT WITH AN ACCEPTABLE INCREASE IN CROP LOSS.
128 MEDIC	LAGO 2	SATIVA	ALFALFA			PIGWEED	INDENI CILINDER	INDENT	1/17X24GA CYLINDER,					AN ACCEPTABLE INCREASE IN CROP LOSS.
				AMARANTHUS		PIGWEED		CYLINDER	6.5 RPM	GOOD	99 9)5 100)	OF SEVERAL CYLINDERS TRIED, THE 1/16
														X 26GA. GAVE THE BEST RESULTS,
														PRODUCING A CLEAN FRACTION WITH ONLY 16 PIGWEED/LB. A LATER
							DETERMINE INDENT							RECOMMENDATION WAS TO SCREEN THE
239 MEDIC	CAGO S	SATIVA	ALFALFA	AMARANTHUS		PIGWEED	SIZE TO REMOVE PIGWEED.	INDENT CYLINDER	1/16 X 26 GA	GOOD				SAMPLE FIRST ON A 1/17 ROUND-HOLE AND THEN USE A 1/17 X 26GA INDENT.
							REMOVE PIGWEED FROM THIS SAMPLE WHICH							
							WAS A REJECT							
281 MEDIC	CAGO S	SATIVA	ALFALFA	AMARANTHUS		PIGWEED	FRACTION FROM A #5 CYLINDER.	INDENT CYLINDER	SEQ.1/16X26 CYLINDER	GOOD				THE 1/16X26 INDENT CYLINDER RECOVERED 73% OF THE SAMPLE WITH 200 PI
				AMARANTHUS		PIGWEED		SCREEN	SEQ.1/16 ROUND HOLE			工		
378 MEDIC	CAGO S	SATIVA	ALFALFA	AMARANTHUS		PIGWEED	REMOVE PIGWEED.	SCREEN	SEQ.1/16" ROUND-HOLE	GOOD				ACCORDING TO SEED MEASUREMENTS, A .07"DI
								INDENT	SEQ.#4 INDENT, FRACT					
				AMARANTHUS		PIGWEED		CYLINDER INDENT	OVER 1/16 SEQ0625"DIAX.019"D	GOOD	+	+		
				AMARANTHUS		PIGWEED		CYLINDER INDENT	EEP,FRACT THRU 1/16	GOOD		-		
				AMARANTHUS		PIGWEED		CYLINDER	#4 INDENT	FAIR				
				AMARANTHUS		PIGWEED	REMOVE RUSSIAN	VIBRATORY	SANDPAPER DECK	FAIR		-		A 6X21 SCREEN DID AN ESSENTIALLY 100%
109 MEDIC	CAGO S	SATIVA	ALFALFA	AXYRIS	AMARANTHOIDES	RUSSIAN PIGWEED	PIGWEED.	SCREEN	6X21 SCREEN	GOOD	10	00 100		SEPARATION.
246 MEDIC	CAGO S	SATIVA	ALFALFA	AXYRIS	AMARANTHOIDES	RUSSIAN PIGWEED	REMOVE RUSSIAN PIGWEED.	SCREENS	VARIOUS	POOR				ALL TRIALS WERE UNSATISFACTORY.
				AXYRIS		RUSSIAN PIGWEED		ELECTROSTATIC		POOR				
				AXYRIS AXYRIS	AMARANTHOIDES	RUSSIAN PIGWEED RUSSIAN PIGWEED		VIBRATORY VELVET ROLL		POOR POOR	\vdash	+		
				AXYRIS	AMARANTHOIDES	RUSSIAN PIGWEED		PNEUMATIC		POOR		1		mb - C-24
														The 6x24 screen/vibrator sequence recovered 30% of the original lot as
266 MEDIC	TAGO	SATIVA	ALFALFA	AXYRIS	AMARANTUOTORS	RUSSIAN PIGWEED	REMOVE RUSSIAN PIGWEED.	SCREEN	SEQ.6X24	FAIR				clean seed. The pneumatic recovered 28% of the lot as clean seed.
200 MEDIC				AXYRIS	AMARANTHOIDES	RUSSIAN PIGWEED		VIBRATORY	SEQ.80 GRIT DECK	FAIR		#		
				AXYRIS AXYRIS		RUSSIAN PIGWEED RUSSIAN PIGWEED		PNEUMATIC OTHER	BOUNCE SEPARATOR	FAIR POOR	\vdash	+		
				AXYRIS		RUSSIAN PIGWEED		SCREENS		POOR		丰		
														THE SCREENING/#6 INDENT SEQUENCE YIELDED 50% WHILE REMOVING 100%
														BINDWEED, 95% KNAPWEED, AND 82% WHITETOP. THE SCREENING/.116"X.037"
							REMOVE WHITETOP,						THE VIBRATOR, BLOWER,	INDENT SEQUENCE YIELDED 57% AND
297 MEDIC	TAGO	SATIVA	ALFALFA	CARDARIA		WHITETOP	BINDWEED, AND RUSSIAN KNAPWEED.	SCREENS	SEQ.(4X18)/(1/16)/(1 /18)			85	ELECTROSTATIC AND VELVET ROLLS WERE UNSATISFACTORY.	REMOVED ABOUT THE SAME AMOUNTS OF THE CONTAMINANTS AS THE #6 CYLINDER DID.
251 MEDIC	LAGU S	DATIVA	ADE ADE A				ROSSIAN KNAPWEED.		SEQ.(4X18)/(1/16)/(1	\vdash			MODELO WERE UNDATISFACTORY.	CONTAMINANTO AO INE #0 CILINDER DID.
				CONVOLVULUS		BINDWEED		SCREENS	/18) SEQ.(4X18)/(1/16)/(1	\vdash	Ē	90		

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY IP	CR FP	NOTES	CONCLUSION
				CARDARIA		WHITETOP		INDENT CYLINDER	SEQ.#6 OR .116"X.037" CYLINDER		82		
				CONVULVULUS		BINDWEED		INDENT CYLINDER	SEQ.#6 OR .116"X.037" CYLINDER		100		
				CENTAUREA	REPENS	RUSSIAN KNAPWEED		INDENT CYLINDER	SEQ.#6 OR .116"X.037" CYLINDER		95		
18	MEDICAGO	SATIVA	ALFALFA	CENCHRUS		SANDBUR	REMOVE SANDBUR	ELECTROSTATIC	BOOSTER MODEL#2, 18.8KV	GOOD	100 100	SAMPLE SIZE WAS ABOUT 1/2	THE ELECTROSTATIC SEPARATOR PERFORMED THIS SEPARATION VERY WELL. THE 1/17 ROUND HOLE SCREEN DID A GOOD
							REMOVE YELLOW		1/17 ROUND HOLE				JOB. IN SEVERAL TRIALS IT HELD 50- 60% OF THE SAMPLE WITH A PURITY OF FROM 12 TO 3 STARTHISTLE SEEDS/LB,
183	MEDICAGO	SATIVA	ALFALFA	CENTAUREA	SOLSTITIALIS	YELLOW STARTHISTLE	STARTHISTLE.	SCREEN	W/DAMS .09"DIAM X .03"DEEP	GOOD			WELL WITHIN THE DESIRED 18 SEEDS/LB.
				CENTAUREA	SOLSTITIALIS	YELLOW STARTHISTLE		CYLINDER	POCKETS	POOR			SCREENING WITH A 1/17 ROUND HOLE AND RUNNING THE REJECT FRACTION THROUGH THE .098*X.025 INDENT CYLINDER
290	MEDICAGO	SATIVA	ALFALFA	CENTAUREA	SOLSTITIALIS	RUSSIAN KNAPWEED	REMOVE RUSSIAN KNAPWEED	SCREEN	SEQ.1/17	GOOD			YIELDED 92% OF THE LOT AS PURE ALFALFA.
				CENTAUREA	REPENS	RUSSIAN KNAPWEED		INDENT CYLINDER	SEQ098"X.025",OVER 1/17 FRACT	GOOD	100 100		
375	MEDICAGO	SATIVA	VERNAL ALFALFA	CENTAUREA	REPENS	RUSSIAN KNAPWEED	REMOVE RUSSIAN KNAPWEED.	SCREEN	1/16" ROUND-HOLE	GOOD			A 1/16° ROUND-HOLE SCREEN SCALPS OFF THE KNAPWEED WITH ABOUT 4% LOSS. SEED MEASUREMENTS INDICATE THAT A #5 INDENT CYLINDER WOULD LIFT THE ALFALFA AND REJECT KNAPWEED.
382	MEDICAGO	SATIVA	ALFALFA	CENTAUREA	REPENS	KNAPWEED	REMOVE KNAPWEED.	MAGNETIC	IRON FILINGS/WATER	GOOD	100 100	SEED MEASUREMENTS INDICATE THAT A 1/15" ROUND-HOLE SCREEN SHOULD SCALP OFF ABOUT 80% OF THE KNAPWEED ALONG WITH 5% OF THE ALFALFA.	THE MAGNETIC SEPARATOR IS RECOMMENDED FOR THIS SEPARATION. 100% REMOVAL OF CONTAMINANT WAS ACHIEVED WITH 5% LOSS.
									22200) 11121		100	CALLER WAS SEKING METHODS FOR REMOVAL OF DODDER FROM ALFALFA SEED OTHER THAN MAGMETIC SEPARATION WHICH WAS ALREADY IN USE. SUGGESTION WAS TO CONTACT MANUFACTURERS OF FRICTION SEPARATORS. PLANS AND A MANUFACTURERS	
1237	MEDICAGO	SATIVA	ALFALFA	CUSCUTA		DODDER	REMOVE DODDER FROM ALFALFA	FRICTION	AS A SUGGESTION, NO SAMPLE			LIST OF SEED EQUIPMENT WERE SENT.	
309	MEDICAGO	SATIVA	ALFALFA	MALVA		MALLOW	REMOVE ALL OR NEARLY ALL MALLOW (NOXIOUS).	SCREENS	SEQ.1/16 OVER 1/19	FAIR			MATERIAL WAS PASSED THROUGH A 1/16 SCREEN, A 1/19 SCREEN AND .075X.030 INDENT CYLINDER. 69% OF THE LOT WAS RECOVERED WITH 21 MALLOW/LB.
				MALVA		MALLOW		INDENT CYLINDER	SEQ075X.030 INDENT				
				MALVA		MALLOW		OTHER	#4 GRADER SHELL	POOR			
				MALVA MALVA		MALLOW MALLOW		VIBRATORY INDENT DISC	R3-1/2 DISC	POOR			
				MALVA		MALLOW		VELVET ROLL	R3-1/2 DISC	POOR			
				MALVA		MALLOW		ELECTROSTATIC		POOR			
462	MEDICAGO	SATIVA	ALFALFA	MALVA		MALLOW	REMOVE MALLOW	MAGNETIC	MEDIUM FINE POWDER	GOOD	100 100	FINAL PURITIES FOR THE ABOVE TRIALS WERE 0 MALLOW/LB, 81/LB, 0/LB, 178/LB, AND 227/LB, RESPECTIVELY.	EXCELLENT RESULTS WERE HAD WITH THE MAGNETIC SEPARATOR. A MEDIUM FINE POWDER WAS USED WHICH WAS FIRST PASSED THROUGH A 400 MESH SCREEN. 96% OF THE ALFALFA WAS RECOVERED WITH 100% PURITY.
				MALVA		MALLOW	1010 101000	VIBRATORY	SANDPAPER DECK	FAIR			
				MALVA		MALLOW		VELVET ROLL		FAIR	100 100		
				MALVA MALVA		MALLOW MALLOW		INDENT CYLINDER PNEUMATIC		FAIR POOR			
									VINYL BAR, SUEDE				THE FRICTION SEPARATOR IS EFFECTIVE, BUT REQUIRES MANY PASSES. THE MAGNETIC SEPARATOR, ALSO EFFECTIVE,
692	MEDICAGO	SATIVA	ALFALFA	MALVA MALVA		MALLOW MALLOW	REMOVE MALLOW	FRICTION MAGNETIC	BELT, 4 PASSES #4 IRON POWDER	GOOD 96 GOOD 96	50 98 98 100		MAY BE MORE PRACTICAL.
566	MEDICAGO	SATIVA	YELLOW ALFALFA	MEDICAGO	SATIVA	ALFALFA	REMOVE BLACK ALFALFA. THE BLACK SEED IS BRED WITH THIS COLOR TO SERVE AS A GENETIC MARKER AND IS USED AS A POLLINATOR IN PRODUCING HYBRID ALFALFA.						NO CONVENTIONAL METHOD WOULD SEEM TO BE PRACTICAL IN THIS SEPARATION BECAUSE THE SEEDS ARE SO SIMILAR. THE COLOR SO
		SATIVA	ALFALFA			SWEETCLOVER		SCREEN	EVIO CLOTTED HOLE	FAIR			A 6X19 SLOTTED-HOLE SCREEN HELD THE MAJORITY OF THE SWEETCLOVER.
403	MEDICAGO	DALLVA	ADE ADE A	MELILOTUS		SHEETCHOVER	REMOVE SWEETCLOVER	INDENT	6X19 SLOTTED-HOLE	PAIR		WIDTH AND THICKNESS SIMILARITIES RULE OUT USE OF	ONLY THE #5 INDENT CYLINDER SHOWED ANY PROMISE. IT LIFTED ALFALFA ALONG
442	MEDICAGO	SATIVA	ALFALFA	MELILOTUS		SWEETCLOVER	REMOVE SWEETCLOVER	CYLINDER	#5 CYLINDER	FAIR		SCREENS.	WITH ABOUT 1/3 OF THE LOT.
				MELILOTUS MELILOTUS		SWEETCLOVER SWEETCLOVER		PNEUMATIC VELVET ROLL		POOR			
				MELILOTUS MELILOTUS		SWEETCLOVER SWEETCLOVER	+	VELVET ROLL ELECTROSTATIC		POOR			
				MELILOTUS		SWEETCLOVER		VIBRATORY		POOR			

17 17 17 17 17 17 17 17	NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR	FP NOTES	CONCLUSION
Column						SILVERSHEATH	REMOVE SILVERSHEATH							THE RECOMMENDED CLEANING SEQUENCE IS TO USE A #5 TRIANGULAR SCREEN, THEN A 1/22* ROUND-HOLE SCREEN, TO DROP KNOTWEED. THE CLEAN FRACTIONS ARE THEN RUN OVER THE ELECTROSTATIC
Company Comp	402 MEDICAGO	SATIVA	ALFALFA				KNOTWEED.							SEPARATOR OR VIBRATOR.
14 14 15 15 15 15 15 15				POLIGONOM	ARGIROCOLEON			SCREEN						
## 15 SECOND STATE APPLIANCE STATE STATE				POLYGONUM	ARGYROCOLEON	KNOTWEED		ELECTROSTATIC	INSTEAD)	GOOD		_		
	421 MEDICAGO	GARTINA.		DUMBY	an tanya	CUDIA POCK	DEMONIA GIRLY DOGV		1/17# POIND HOLD	goop				THIS SAMPLE. A 1/17" ROUND-HOLE SCREEN, A 3/64X5/16 SLOTTED HOLE SCREEN AND THE ELECTROSTATIC SEPARATOR EACH REMOVED ALL THE DOCK
Company	421 MEDICAGO	SATIVA	ALFALFA				REMOVE CORLY DOCK	SCREEN						WITH 6% LOSS OR LESS.
					CRISPUS	CURLY DOCK		ELECTROSTATIC			1	100	100	
March Marc														
State Stat				I CONTENT	CICIDIOS	CORDI DOCK		VIDIGITORI						
														OIL/POWDER MIXTURE DID QUITE WELL,
No.	98 MEDICAGO	SATIVA	ALFALFA	SORGHUM	HALEPENSE	JOHNSONGRASS		MAGNETIC	WATER W/IRON POWDER	POOR				
Part									OIL W/IRON POWDER,					
145 150				SORGHUM	HALEPENSE	JOHNSONGRASS		MAGNETIC	1/8" CLEARANCE	GOOD	98	75	100	THE VIDDATOR RECOVERED 75% OF LOT
Second S	189 MEDICAGO	SATIVA	ALFALFA				REMOVE JOHNSONGRASS				1			FREE OF JOHNSONGRASS AND THE INDENT CXLINDER WAS ABLE TO RECOVER 89% AT A PURITY OF 99.5%. BEST RESULTS, THOUGH, WERE WITH THE SCREEN/INDENT SEQUENCE WHICH RECOVERED A TOTAL OF 96% OF THE LOT AT 99.64% PURITY.
REGIST STATUM MARRIES									SEQ.REJECT FRACTION					
SOLICION MALESCRIA SOLICION MALESCRIA SOLICIONALS SOLICIONAL								TNDENE						
				SORGHUM	HALEPENSE	JOHNSONGRASS				GOOD			99	
BROVE RINGER BROWE RINGER BR									.116"DIAMX.036"DEEP					
STATIVA ALPALPA SOURCE SATIVA SOURCE SATIVA ALPALPA SOURCE SATIVA SOURCE				SORGHUM	HALEPENSE	JOHNSONGRASS		CYLINDER	POCKETS			-	100	DECT DECILITO WITH THE VIDDATOR
COMPANY ALFERNIE COMMONSMALE COMMONS	23E MEDICAGO	and the second		CODOWN	un annua	TOUNGOVERNO	JOHNSONGRASS (800/LB) FROM	W.T.D.D.M.G.D.V.		goop		0.4		SEPARATOR WHERE THE TWO MIDDLE FRACTIONS WERE RERUN AND ALL LOWER FRACTIONS WERE COMBINED TO YIELD 97% OF THE LOT WITH 94% OF THE
COMMINITY COMM	235 MEDICAGO	SATIVA	ALFALFA	SURGHUM	HALEPENSE	JUHNSUNGRASS	ALFALFA.	VIBRATORY		GOOD		94		JOHNSONGRASS REMOVED.
SORGHUM SALEPHREE JOHNSCHORASS PRICE PARTY SORGHUM SALEPHREE JOHNSCHORASS PARTY SORGHUM SALEPHREE JOHNSCHORASS PARTY SORGHUM SALEPHREE JOHNSCHORASS PARTY SORGHUM SALEPHREE JOHNSCHORASS JOHNSCHORASS PARTY SORGHUM SALEPHREE JOHNSCHORASS JOHNSCHORASS JOHNSCHORASS PARTY SALEPHREE JOHNSCHORASS JOHNSCHORASS PARTY SALEPHREE JOHNSCHORASS JOHNSCHORASS PARTY SALEPHREE JOHNSCHORASS JOHNSCHORASS PARTY SALEPHREE									UPPERMOST FRACTS.					
SOURCE S									RERUN TWICE.					
ALPHANE SOCIETY SOCI									20KV,HOR=-5,VER=-11			-		
## MEDICADO SATIVA ALFALFA SORGHY MALPENSE OUNSONGRASS ED MANNET VELVEY BOLL ALFALFA SORGHY MALPENSE OUNSONGRASS DUNNAMASS SED MANNET MALPENSE DUNNAMAS SED MANDET MALPENSE DUNNAMAS SED MALPENSE MANNET MALPENSE MANDET MALPENSE MALPENSE MANDET MALPENS				SORGHUM	HALEPENSE	JOHNSONGRASS		SCREENS	VARIOUS	POOR				
SORGHUM HALEPENSE JOHNSONGASS SANDARP DECK PAIR	429 MEDICAGO	SATIVA	ALFALFA							GOOD	1	100	100	EXCELLENT RESULTS WERE OBTAINED WITH THE MAGNETIC SEPARATOR WHICH REMOVED ALL JOHNSONGRASS WITH ONLY 1% LOSS.
SORGHUM HALFFENDE JOINSONGRASS SNEWLYTT FOOR						JOHNSONGRASS			CAMDDADED DECK					
SORGHUM MALEPENSE JOHNSONGARAS SCREENS FOR STATUS SCREEN SORGHUM MALEPENSE JOHNSONGARAS SCREENS FOR SCREENS FOR STATUS SCREENS FOR SCREENS FOR STATUS FOR									SANDPAPER DECK			-		
SI MEDICAGO SATIVA ALFALPA TRIFOLIUM PRATENSE RED CLOVER TINE SAMDEABER RED CLOVER TINE SAMDEABER RED CLOVER TINE SAMDEABER RED CLOVER TO SAMDEABER RED CLOVER, SC MERE OBTAINED WITH THE SCREEN/HIND WITH WITH WITH WITH SALVAGE REMOVE STEM THE SCREEN HIND WITH THE SCREEN HIND HIND W				SORGHUM	HALEPENSE	JOHNSONGRASS		ELECTROSTATIC		POOR				
131 MEDICAGO SATIVA ALFALFA REFOLIUM PARENSE RED CLOVER AND RED CLOVER. CYLINDER PARENSE RED CLOVER. CYLINDER SANDARDER PARENSE PARENSE RED CLOVER. CYLINDER SANDARDER PARENSE PARENSE PARENSE RED CLOVER. CYLINDER SANDARDER PARENSE				SORGHUM	HALEPENSE	JOHNSONGRASS	DEMOVE CHEET CLOVED			POOR				DECT DECILITY IN DEMOVING DED CLOVED
Second S	513 MEDICAGO	SATIVA	ALFALFA	TRIFOLIUM	PRATENSE	RED CLOVER			#4 CYLINDER	FAIR			FOR THE RED CLOVER, SC	
MAINTIC MATERIAL				TRIFOLIUM	PRATENSE	RED CLOVER		VIBRATORY		FAIR		60		
THE SCREENING MET LEAVES AND PARTIAL PEPPERMINT THE SCREENING MET LEAVES AND ALFALFA ALFALFA MUSTARD MUS				MELILOTUS		SWEETCLOVER		MAGNETIC		GOOD		100	100	
MUSTARD MUSTARD SEREN SEQ.1/17 NOUND HOLE MUSTARD MUSTARD SEGEN SEQ.1/17 NOUND HOLE MUSTARD MUST	200 455 400								PLASTIC BELT, 46FPM,					THE SCREEN/INDENT CYLINDER SALVAGED 94% OF THE LOT WITH VERY FEW MUSTARD SEED. THE VIBRATOR AND DRAPER REMOVED ALL THE MUSTARD SEED WHILE SALVAGING 85% AND 96% OF THE LOT,
MUSTARD SCREEN SEQ.1/17 ROUND HOLE INDENT SEQ.44, FRACT OVER CYLINDER 1/17 FAIR TOTAL ALFALFA MUSTARD MUSTAR	522 MEDICAGO	DALLVA	ADFADFA				REMOVE MUSTARD.							REGFECTIVELI.
MUSTARD CLINDER 1/17 FAIR SEQ.1/17X24GA, THRU TOUR MEDICAGO SATIVA ALFALFA ALFALFA BERNOVE STEM MATERIAL FROM FIRST SCREENING WENT THROUGH SCOOLD SCREENING. LEAVES AND STEMS SIZE. AIR-SCREEN 1/20 RB DOTTOM								SCREEN	SEQ.1/17 ROUND HOLE					
MUSTARD SATIVA ALFALFA 759 MEDICAGO SATIVA ALFALFA ALFA						MUSTARD				PATE				
MEDICAGO SATIVA ALFALFA MUSTARD CYLINDER 1/17 FAIR FAIR FAIR FINE MATERIAL FROM FIRST SCREENING WENT THROUGH SECOND SCREENING WENT THROUGH SQUEZE ROLLERS SCREENING WENT THROUGH SOURCES ROLLERS SCREENING WENT THROUGH SQUEZE ROLLERS SCREEN WATERIAL BY USE OF THE # SCREEN WENT THROUGH SQUEZE ROLLERS SCREEN W								INDENT	SEQ.1/17X24GA, THRU					
FINE MATERIAL FROM FIRST SCREENING WENT THROUGH SECOND SCREENING WENT THROUGH SCOOD SCREENING WENT THROUGH SCOOD SCREENING WENT THROUGH SQUEEZE ROLLERS REMOVE STEM MATERIAL FROM FIRST SCREENING WENT THROUGH SQUEEZE ROLLERS REMOVE STEM MATERIAL FROM FIRST SCREENING WENT THROUGH SQUEEZE ROLLERS SEQ.#14 OR #16 RD TOP SCR, #8 RD SEQ.#14 OR #16 RD TOP SCR, #8 RD SCREENING UP, THEN COULD BE GRADED TO SIZE AND SEPARATE SCREEN MACHINE. SCREEN MACHINE. SCREEN MACHINE. SCREEN MACHINE.	750 MBDT 23 22	CAMTUA	21.021.02	1		MUSTARD		CYLINDER		FAIR				
793 MENTHA PIPERITA PEPPERMINT STEMS LEAVES AND STEMS SIZE. AIR-SCREEN BOTTOM SCREENS. SCREEN MACHINE. SQUEEZ ROLLERS SQUEEZ ROLLERS SCREENS. SCREEN MACHINE. SCREENS. SCREEN MACHINE. SCREENS. SCREEN MACHINE. SQUEEZ ROLLERS SQUEEZ ROLLERS	759 MEDICAGO	SATIVA	ALFALFA	LEAVES AND									SCREENING WENT THROUGH SECONI SCREENING. LARGE LEAF/STEM MATERIAL FROM FIRST SCREENING WENT THROUGH SQUEEZE ROLLERS FOR BREAKING UP, THEN COULD	PEPPERMINT LEAF MAY BE SUCCESSFULLY BE GRADED TO SIZE AND SEPARATED FROM
FINE SEQ.#7 RD TOP SCR, MATERIAL FINE MATERIAL AIR-SCREEN 1/20 RD BOTTOM LARGE MATERIAL LARGE MATERIAL OTHER SQUEEZE ROLLERS	793 MENTHA	PIPERITA	PEPPERMINT			LEAVES AND STEMS		AIR-SCREEN						
LARGE MATERIAL LARGE MATERIAL OTHER SQUEEZE ROLLERS				FINE					SEQ.#7 RD TOP SCR,					
MATERIAL LARGE MATERIAL OTHER SQUEEZE ROLLERS						FINE MATERIAL	-	AIR-SCREEN	1/20 RD BOTTOM			+		
THE PROPERTY OF THE PROPERTY O						LARGE MATERIAL		OTHER	SQUEEZE ROLLERS					
	1005 MPNTTUS	DIDEBIES	DEDDEDMIN	MENTELLA			THRESH & SEPARATE	CONDICTED	#O MANUEL E	COOF				A PERFORATED MANTEL IS DESIRED AND WILL BE CONSTRUCTED BY PETER M.

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR	FP NOTES	CONCLUSION
				MENTHA				INDENT CYLINDER	4 MM	GOOD				
710	MIMULUS		MONKEYFLOWER	INERT INERT		INERT INERT	THRESH AND REMOVE INERT MATERIAL	PNEUMATIC BELT THRESHER	SEQ. SEQ.	GOOD GOOD			PROBLEM SAMPLES #1069, #1070, #1071, AND #1072, WERE ALL FORMERLY PART OF SAMPLE #710.	PNEUMATIC/BELT THRESHER/SCREEN
1012	MIMULUS		MONKEYFLOWER	INERT		INERT	CONDITIONING OF SMALL-SEEDED NATIVE PLANTS	SCREEN	SEQ. 1/25 RD HOLE	GOOD				MR. NELSON WILL SEND SAMPLES OF FINE SEEDS BY ABOUT 4/29/88 AND WILL VISIT THE LAB ABOUT 5/30/88 GOOD RESULTS WERE OBTAINED BY
347	MUHLENBERGIA	WRIGHTII	SPIKE MUHLY	TRASH		TRASH	REMOVE SAND DROPSEED, LOVEGRASS AND TRASH.	SCREENS	SEQ.#7 OVER .033" ROUND-HOLE	GOOD				SCALPING THIS COMBINE-RUN LOT ON A #7 ROUND-HOLE SCREEN,.033" ROUND-HOLE SCREEN AND THEN BLONING IT TO REMOVE TRASH. A #7 INDENT REMOVED LONG STEMS AND A #4 INDENT REMOVED LOVEGRASS AND DROPSEED.
				TRASH		TRASH		PNEUMATIC INDENT	SEQ.FRACT THRU .033" SEQ.#7 CYL, HEAVY	GOOD				
				STEMS		STEMS		CYLINDER	FRACT FROM PNEUM.	GOOD				
				SPOROBOLUS	CRYPTANDRUS	SAND DROPSEED		INDENT CYLINDER	SEQ.#4 CYL	GOOD				
				ERAGROSTIS		LOVEGRASS		INDENT CYLINDER	SEQ.#4 CYL	GOOD				
				BRAGROSTIS		LOVEGRADS			OBQ.#4 CIB	GOOD			THIS SAMPLE CONTAINED ANNUAL BLUEGRASS THAT HAD TO BE REMOVED COMPLETELY. THE	
	MYOSTOTIS NASTURTIUM		FORGETMENOT NASTURTIUM	POA NASTURTIUM	ANNUA	ANNUAL BLUEGRASS NASTURTIUM	REMOVE ANNUAL BLUEGRASS SCARIFY SEED	INDENT CYLINDER SCARIFIER	2MM LAH #7 MANTLE	FAIR		95%	INDENT CYLINDER REMOVED A LARGE PORTI	USE INDENT CYLINDER WITH 2MM POCKET TO REMOVE ANNUAL BLUEGRASS THE LAH SCARIFIER WITH #7 MANTLE DID A GOOD JOB.
816	NICOTIANA	TABACUM	TOBACCO	INERT INERT		INERT INERT	REMOVE INERT	VIBRATORY PNEUMATIC	DECK=MEDIUM GRIT, 6 1/2 DEG FRONT-TO- BACK, 11 1/2 DEG LEFT-TO-RIGHT	GOOD	99		100	THE VIBRATOR SEPARATOR, PNEUMATIC SEPARATOR AND HAND SCREEN EFFECTIVELY REMOVED INERT PARTICLES WITH ONLY SMALL CROP LOSSES. THE MOST COMPLETE REMOVAL OF INERT PARTICLES WAS ACHIEVED WITH THE VIBRATOR SEPARATOR.
799	DENATHERA		PRIMROSE	INERT INERT INERT		INERT INERT	REMOVE SEED FROM SEED PODS.	SCREEN BELT THRESHER SCREENS	SEQ.ZERO CLEARANCE SEQ.1/23 ROUND HOLE	GOOD	99		SAMPLES SENT TO SUBMITTER FOR EVALUATION.	EITHER THE BELT THRESHER OR SQUEEZE ROLLERS MAY BE USED TO REMOVE OENATHERA SEED FROM SEED PODS SUCCESSFULLY. SCRENING WILL CLEAN THE SEEDS WITH A MINIMUM OF CROPLOSS.
				INERT		INERT		SCREEN	SEQ027" ROUND HOLE	GOOD				
									SQUEEZE ROLL: WOODEN ROLLERS, 1/16					
				INERT		INERT		OTHER	CLEARANCE	GOOD			VIBRATORYSEPARATOR WORKED	
	DENOTHERA	BIENNIS	EVENINGPRIMR OSE	ANTHEMIS	COTULA	DOGFENNEL	REMOVE DOGFENNEL REMOVE INERT	VIBRATORY		GOOD			VERY WELL BUT AT THE USUAL LOW CAPACITY	USE VIBRATORY SEPARATOR
1031	DENOTHERA	PALLIDA	OENOTHERA	INERT		INERT	MATERIAL	PNEUMATIC VIBRATORY		POOR			FORMERLY UNDER SAMPLE #736	
832	ONOBRYCHIS	VICIAEFOLIA	SAINFOIN	INERT		INERT	THRESH AND SEPARATE SAINFOIN SEED.		SEQ. ZERO CLEARANCE SEQ.	GOOD GOOD				SAINFOIN SEED CAN BE EFFECTIVELY REMOVED FROM THE HULL BY BELT THRESHING. SEPARATION OF CHAFF AND SEED CAN BE ACCOMPLISHED BY AN AIR COLUMN.
472	ONOBRYCHIS	VICIIFOLIA	SAINFOIN	INERT		INERT	REMOVE STEMS, BROME, TRASH, ALFALFA CURLS.	SCREENS	#14 RD OVER 6/64X3/4	GOOD				THE SCREENS SALVAGED 84% OF THE ORIGINAL MATERIAL AS CLEAN SEED. THE PNEUMATIC/SCREENS SEQUENCE SALVAGED 75% AS CLEAN SEED. THE THRESHER/PNEUMATIC SEQUENCE ALSO DID A GOOD JOB WITH THIS PROBLEM.
								PNEUMATIC SCREENS	SEQ. #1 SEQ. #1,#14 RD OVER 6/64X3/4	GOOD				
								BELT THRESHER PNEUMATIC	SEQ. #2 SEQ. #2	GOOD GOOD				
				BROMUS		BROME	REMOVE DISCOLORED							
434	ORYZA	SATIVA	RICE	ORYZA ORYZA ORYZA	SATIVA SATIVA SATIVA	PECKY RICE KERNELS PECKY RICE KERNELS PECKY RICE KERNELS	"PECKY" KERNELS FROM MILLED RICE.	ELECTROSTATIC OTHER VIBRATORY	BOUNCE PLATE	POOR POOR				NO SUCCESS WITH THIS PROBLEM.
				ORYZA	SATIVA	PECKY RICE KERNELS		MAGNETIC		POOR				
547	DRYZA	SATIVA	WHITE RICE	ORYZA ORYZA ORYZA	RUFIPOGON RUFIPOGON RUFIPOGON	RED RICE RED RICE RED RICE	REMOVE RED RICE	VIBRATORY MAGNETIC OTHER	CROCUS CLOTH DECK SQUEEZE ROLLS	GOOD POOR POOR			PNEUMATIC, CHUTE, ELECTROSTATIC AND VELVET ROLL SEPARATORS YIELDED UNCONCLUSIVE OR 100 UNSATISFACTORY RESULTS.	THE VIBRATOR SEPARATOR WAS VERY EFFCTIVE IN THIS SEPARATION.
552	ORYZA	SATIVA	RICE	ORYZA	RUFIPOGON	RED RICE	REMOVE RED RICE	OTHER	PRECISION GRADER, #7	,			TRIALS WITH ELECTROSTATIC, VELVET ROLLS, BOUNCE PLATE AND SLIDE CHUTE SHOWED LITTLE TENDENCY FOR SEPARATION.	FRACTIONS WERE SENT TO SUBMITTER FOR INSPECTION.

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP C	R F	P NOTES	CONCLUSION
			ORYZA	RUFIPOGON	RED RICE		VIBRATORY	SANDPAPER DECK					
			ORYZA ORYZA	RUFIPOGON RUFIPOGON	RED RICE		OTHER VIBRATORY	SEQ.PRECISION GRADER SEQ.SANDPAPER DECK					
			OKIZA	ROFIFOGON	RED RICE	SEPARATE ROUGH (IN-	VIBRATORI	DEQ. DANDERFER DECK				THE SAMPLE CONSISTED OF ABOUT	NO SINGLE SEPARATOR COULD MAKE A
						HULL) RICE FROM						50% OF EACH TYPE OF RICE.	TOTAL SEPARATION, BUT USED IN
839 ORYZA	SATIVA	RICE-MEDIUM GRAIN	ORYZA	SATIVA	ROUGH RICE	BROWN (OUT-OF-HULL) RICE.	SCREEN	#7 ROUND-HOLE	GOOD	l ,		RELATED SAMPLE OF LONG-GRAIN 96 RICE UNDER #1047.	COMBINATION, SATISFACTORY RESULTS COULD PROBABLY BE ACHIEVED.
839 OR12A	SALLVA	GRAIN	URIZA	SATIVA	ROUGH RICE	RICE.	INDENT DISC	SIZE EE	GOOD		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	90 RICE UNDER #1047.	COULD PROBABLI BE ACRIEVED.
								BELT-TYPE, 11 KV	FAIR	9	95 10	00	
								VIOLET FILTER, WHITE			١.		
							COLOR SORTER	BACKGROUND	GOOD			99	NO SINGLE MACHINE MADE A TOTAL
													SEPARATION, IN COMBINATION, A
						SEPARATE ROUGH (IN-						THIS SAMPLE FORMERLY UNDER	SATISFACTORY SEPARATION COULD
		LONG-GRAINED				HULL) RICE FROM BROWN (OUT-OF-HULL)		1/2X1/4 SLOTTED				#839. SEE #839 FOR SAME PROBLEM WITH MEDIUM-GRAINED	PROBABLY BE ACHIEVED. ALL SAMPLES WERE A MIXTURE OF ABOUT 50% OF EACH
1047 ORYZA	SATIVA	RICE	ORYZA	SATIVA	ROUGH RICE	RICE.	SCREEN	METAL	GOOD			99 RICE.	RICE.
							INDENT DISC	NO. A DISC	FAIR			89	
							ELECTROSTATIC	FILTER=47B,	GOOD		- 1	99	
								BKG=LIGHT GRAY,					
								LIGHT SENS.=90,					
							COLOR SORTER	DELAY=28	FAIR		- 1	86	MILE VIDDAMOD DEMOVED MUE WAMEDODAGO
													THE VIBRATOR REMOVED THE WATERGRASS AND MUCH OF THE FOREIGN MATERIAL,
						REMOVE WATERGRASS							THEN THE COLOR SORTER WAS USED TO
		SHORT GRAIN				AND OTHER FOREIGN							REMOVE THE REST OF THE FOREIGN
319 ORYZA	SATIVA	RICE	PASPALUM FOREIGN	DILATATUM	WATERGRASS MATERIAL	MATERIALS.	VIBRATORY COLOR SORTER	SEQ.	GOOD	-	-		MATERIAL.
			POREIGN		PATRIAL	REMOVER WATERGRASS	COLOR BURIER	SEQ.	GOOD				
		LONG GRAIN				AND FOREIGN							THE COLOR SORTER REMOVED WATERGRASS
320 ORYZA	SATIVA	RICE	PASPALUM	DILATATUM	WATERGRASS	MATERIAL.	COLOR SORTER		GOOD				AND ALMOST ALL THE FOREIGN MATERIAL.
						SEPARATE UNHULLED WILD RICE FROM							SEVERAL MACHINES, INCLUDING THE ELECTROSTATIC SEPARATOR, WERE TRIED,
624 ORYZA	SATIVA	RICE				HULLED FRACTION.							BUT WITH NO SUCCESS.
						SCARIFY WILD RICE ON							BREAKAGE OF WILD RICE IN THE ROTARY
830 ORYZA	SATIVA	WILD RICE				ROTARY SCARIFIER.	SCARIFIER	ROTARY	POOR			TESTS OF SCARIFICATION	SCARIFIER WAS EXCESSIVE.
												PROCEDURES WAS THE OBJECT OF	
												THIS WORK. THE LAH AND THE	
								LAH W/#14 SQ WW				ROTARY SCARIFIER WERE TESTED	
		INDIAN			UNSCARIFIED INDIAN	TEST SCARIFICATION		MANTLE FOR 2 MIN BATCH AND 230 GRAM				EACH ON 230 GRAM LOTS. SOME BREAKAGE OF SEED OCCURRED IN	
1160 ORYZOPSIS	HYMENOIDES	RICEGRASS	ORZYOPSIS	HYMENOIDES	RICEGRASS	METHODS	SCARIFIER	LOT				THE ROTARY SCARIFIER	
								ROTARY @ 500RPM AND					
					UNSCARIFIED INDIAN			15 DEGREE SLOPE FOLLOWED BY AIR AND					
			ORZYOPSIS	HYMENOIDES	RICEGRASS		SCARIFIER	1/18 RH SCREEN					
													USE PNEUMAIC SCARIFIER WITH NO
													ABRASIVE CLOTH AND 50 PSI AIR FOR 20 TO 60 SECONDS ON 10 TO 20 GRAMS OF
													SEED TO REMOVE PUBESCENCE. FOR
					UNTHRESHED RICE	TEST THRESHING		PNEUMATIC,50PSI NO				SEVERAL TESTS OF THRESHING	LARGER QUANTITIES USE LAH SCARIFIER
1144 ORYZOPZIS		RICE GRASS	ORYZOPSIS		GRASS	PROCEDURES	SCARIFIER	ABRASIVE	GOOD			PROCEDURES WER	WITH #14 OR #7 MESH MANTLE.
			ORYZOPSIS		UNTHRESHED RICE GRASS		SCARIFIER	LAH W/#7 AND #14 WW MANTLE	GOOD				
								FINE BELT, 10:1					
					UNTHRESHED RICE			SPEED, -5MM					
			ORYZOPSIS		GRASS	REMOVE FOXTAIL,	BELT THRESHER	CLEARANCE	FAIR				THE VIBRATOR SEPARATOR WILL REMOVE
						BARNYARD GRASS AND						A SINGLE PASS WAS MADE ON THE	MOST OF THE CONTAMINANT SEED IN THIS
837 PANICUM	VIRGATUM	SWITCHGRASS	ALOPECURUS		FOXTAIL	MISC. WEEDS.	VIBRATORY	SANDPAPER DECK	FAIR	97 8	35 9	99 VIBRATOR.	SAMPLE.
			ECHINOCHLOA	CRUSGALLI	BARNYARD GRASS								
			Dentitoendon	CRODONIDE	Diadviraco Gidioo								ALL THREE MACHINES GAVE HIGH PURITY
													PRODUCTS, BUT THE MAGNETIC SEPARATOR
						REMOVE GIANT FOXTAIL, GREEN							LOST THE LEAST CROP (LESS THAN 10%). THE INDENT CYLINDER HAD A LOSS OF
						FOXTAIL AND BARNYARD		30 DEG VINYL BAR,					ALMOST 30%, BUT MIGHT DO BETTER IN A
724 PANICUM	VIRGATUM	SWITCHGRASS	SETARIA	FABERII	GIANT FOXTAIL	GRASS	FRICTION	NAUGAHYDE BELT	GOOD	96	75 9	99	FULL-SIZED MACHINE.
			SETARIA	VIRIDIS	GREEN FOXTAIL		INDENT	#7 CYLINDER, 4RPM	FAIR	96		99	
			OSTAKIA	VIKIDIS	GREEN FOATAIL		CYLINDER	#/ CILINDER, 4RPM	FAIR	96	+	22	
			ECHINOCHLOA	CRUSGALLI	BARNYARD GRASS		MAGNETIC	#4 IRON POWDER	GOOD	96		99	
1191 PANICUM	VIRGATUM	SWITCHGRASS					TAUDUM		1	\perp	_	HEDGE MOUREDD VING COVEY TOTAL	HOR I O MM THERE OUT THERE TO DESCRIPT
958 PAPAVER	RHOEAS	CORN POPPY	SISYMBRIUM	OFFICINALE	HEDGE MUSTARD	REMOVE HEDGE MUSTARD	INDENT CYLINDER	1MM	GOOD			HEDGE MSUTARD WAS COMPLETELY REMOVED USING 1MM POCKET	USE 1.0 MM INDENT CYLINDER TO REMOVE HEDGE MUSTARD
													PNEUMATIC SEPARATION FOLLOWED BY
						REMOVE INERT							SCREENING, FRICTION OR VELVET ROLLS
						MATERIAL AND WEED SEEDS (LAMBSQUARTER,						THE SAMPLE WAS REJECT	ALL YIELDED GOOD RESULTS, BUT THE BEST RESULTS WERE WITH PNEUMATIC AND
						PIGWEED, SORREL, AND						MATERIAL FROM A GRAVITY	FRICTION SEPARATION, CONSIDERING
609 PAPAVER		POPPY	MISC		MISC	MANY OTHERS).	PNEUMATIC	SEQ.				TABLE.	YIELD AND PURITY.
						DETERMINE METHOD TO SEPARATE "GREY"							TEXTURE DIFFERENCES BETWEEN THE
						SEPARATE "GREY" SEEDS AND "BLUE"							"BLUE" AND "GREY" SEEDS ARE NOT GREAT
879 PAPAVER		POPPY				SEEDS AND BEGE	FRICTION	SEQ. TWO PASSES	GOOD			99	ENOUGH TO MAKE A SEP
						REMOVE INERT							
						MATERIAL: STEMS,				1 1			
												SUBMITTER REQUESTED 98%	
815 PARTHENIUM	ARGENTATUM	GUAYULE	INERT		INERT	ROUND AND FLAT BARK- LIKE MATERIAL.	SCREEN	SEQ. 1/15 RD HOLE				PURITY AND LOW CROP LOSS BECAUSE OF VALUE OF CROP.	MOST SEPARATORS WERE TRIED, B

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	P CI	R FP	NOTES	CONCLUSION
				INERT		INERT		SCREEN	SEQ. 1/19 RD HOLE		7	8		
				INERT		INERT		VIBRATORY	SEQ.	FAIR		90		HAND-THRESHING FOLLOWED BY PNEUMATIC
							THRESH AND CLEAN		SEQ.HAND-THRESHED ON					SEPARATION PRODUCED A VERY CLEAN
654	PARTHENIUM	ARGENTATUM	GUAYULE				GUAYULE SEED	OTHER	RUB BOARD					SAMPLE WITH NEGLIGIBLE LOSS.
							SEPARTATION OF	PNEUMATIC	SEQ.	GOOD				
							VIABLE SEED FROM							
							INERT MATERIAL.							
							LARGEST PORTION OF							
							VIABLE SEED REQUIRED THRESHING TO REMOVE							
							INERT PORTION OF							
							SEED FROM VIABLE						REFER TO PROBLEM SAMPLE FILE	
1141	PARTHENIUM		GUAYULE	INERT		INERT	PORTION.	SEQUENCE					1141 FOR A GOOD TIME.	
							REMOVE INERT							A #20 INDENT CYLINDER DID A GOOD JOB OF LIFTING THE PARSNIP SEEDS FROM THE
							MATERIAL (STICKS) ON	INDENT	#20 INDENT CYLINDER,					STICKS AT FAIRLY LOW SPEEDS OF ABOUT
781	PASTINACA	SATIVA	PARSNIP	INERT		INERT	INDENT CYLINDER.	CYLINDER	35 RPM	GOOD				35 RPM.
							PERFORM CONVEYING						ALL TESTS CARRIED OUT WITH 1-	
110	NA COMTANA CIA	SATIVA	PARSNIP				TRIALS AND CHECK FOR SEED DAMAGE.						1/2" PIPELINE (30' VERT, 26' HOR, 4 ELBO	PARSNIP FLOWED NICELY AT LOW VELOCITY IN LE
112	PASTINACA	SATIVA	PARSNIP				SEED DAMAGE.						THIS MATERIAL REQUIRED	IN LE
													SEVERAL RERUNS WITH SEPARATE	
									LAH W/#14 SQUARE				AIR SEPARATIONS. DAMAGE	USE LAH HULLER SCARIFIER WITH #14
1098	PELARGONIUM		GERANIUM	PELARGONIUM		GERANIUM IN THE HULL		SCARIFIER	WIRE MANTLE	GOOD			APPEARED TO BE VERY LOW	SQUARE WIRE MANTLE.
1110	PELARGONIUM		GERANIUM	PELARGONIUM		GERANIUM IN THE HULL	REMOVE HULL AND							
1110	PELARGONIUM		GERANION	PELARGONIUM		GERANIOM IN THE HOLL	CLEAN							THREE MAKESHIFT SCARIFIERS WERE SET
														UP AND TRIED: A SANDPAPER BELT, A
							SCARIFY GERANIUM							PNEUMATIC, AND A REVOLVING SANDPAPER
	PELARGONIUM		GERANIUM				SEED.							DISK TYPE.
433	PELARGONIUM		GERANIUM											USING THE ABOVE SEQUENCE, 56% BY
														WEIGHT OF THE ORIGINAL SAMPLE WAS
														RECOVERED AS HULLED SEED. BY RUNNING
														THE UNHULLED SEED FROM THE 1/13 ROUND-
														HOLE SCREEN THROUGH THE
							THRESH AND CLEAN		SEQ.0.011" CLRNC,5:1					THRESHING/CLEANING PROCESS AGAIN, THE AMOUNT OF SEED RECOVERED INCREASED TO
494	PELARGONIUM		GERANIUM	TRASH			GERANIUM SEED.	BELT THRESHER	BELT SPEED RATIO					66%.
				TRASH		TRASH		SCREEN	SEQ.20X20 WIRE MESH					
				HULLS		HULLS		PNEUMATIC	SEQ.375 FPM					
				UNHULLED		UNHULLED		SCREEN	SEQ.1/13 ROUND-HOLE					THE ELECTROSTATIC AND PNEUMATIC
							REMOVE ROCKS, STEMS,							SEPARATORS DID THE BEST JOB. THE
							JOINTS AND MANURE							PNEUMATIC SEPARATOR YIELDED 69% AT
							CHIPS TO RAISE							92% PURITY AND THE ELECTROSTATIC
155	PENNISETUM	CILIARE	BUFFALOGRASS			INERT	PURITY TO 90%.	ELECTROSTATIC			72 6			YIELDED 81% AT 86% PURITY.
				INERT INERT		INERT		PNEUMATIC VIBRATORY				9 92		
				INERT		INERT		SCREEN			72 6			
							REMOVE STRAW AND							FRACTIONS WERE SENT TO SUBMITTER FOR
551	PENNISETUM	CILIARE	BUFFEL GRASS	INERT		INERT	STEMS.	BELT THRESHER	SEQ.1.					EVALUATION.
				INERT		TMPDT		SCREENS	SEQ.1.#7 1/2 AND .027 RD					
				INERT		INERT		ELECTROSTATIC		FAIR				
				INERT		INERT		BELT THRESHER	SEQ.2.					
									SEQ.2.#9 1/2 AND					
				INERT		INERT		SCREENS	.027 RD					
\vdash				INERT		INERT		PNEUMATIC	SEQ.2.	GOOD	-	_	THE AIR-SCREENED, BELT-	BEST RESULTS WERE OBTAINED WITH THE
									SEQ: #15 ROUND HOLE				THRESHED MATERIAL WAS ALSO	AIR-SCREEN/THRESHER/AIR-SCREEN
							REMOVE INERT		TOP SCREEN, 4 7/8 X				TRIED ON A VIBRATOR SEPARATOR	SEQUENCE. FAIR RESULTS WERE OBTAINED
							MATERIAL: STEMS AND		1/2 SLOTTED BOTTOM				WITH GOOD RESULTS BUT HIGHER	WITH THE AIR-SCREEN/THRESHER/VIBRATOR
735	PENNISETUM	CILIARE	BUFFEL GRASS			INERT	LEAVES	AIR-SCREEN	SCREEN		-		CONTAMINANT LEVELS.	SEQUENCE.
\vdash				INERT		INEKI		BELT THRESHER	SEQ: #8 ROUND HOLE	+ +	-			
									TOP SCREEN, #13					
									ROUND HOLE BOTTOM					
\vdash				INERT		INERT		AIR-SCREEN	SCREEN	GOOD		_		
														IN THE ABOVE SEQUENCE, THE LAST PNEUMATIC SEPARATOR TRIAL SEPARATED
														LIGHT FROM HEAVY, PRESUMABLY
														GERMINABLE, SEED. THE HEAVY SEED
			FOUNTAIN				THRESH AND CLEAN		SEQ.5:1 SPEED, .011"					AMOUNTED TO 14.7% OF THE ORIGINAL
495	PENNISETUM	RUPPELII		TRASH		TRASH	SEED.	BELT THRESHER	CLEAR.					SAMPLE WEIGHT.
\vdash				TRASH		TRASH		SCREEN	SEQ.30X30 WIRE MESH		_	-		
				TRASH SEED		TRASH SEED	+	PNEUMATIC PNEUMATIC	SEQ.375 FPM SEQ.550 FPM		+	-		
							REMOVE STEMS AND		g.556 12M		+			THE SEQUENCE OF PNEUMATIC SEPARATION
							LIGHT TRASH FROM						SAMPLE LOT WAS SCREENINGS TO	FOLLOWED BY INDENT CYLINDER WORKED
597	PENSTEMON		PENSTEMON	STEMS		STEMS	WILD FLOWER SEED.	PNEUMATIC	SEQ.				BE SALVAGED.	QUITE WELL WITH LITTLE CROP LOSS.
				OMBWG		отпис		INDENT	SEQ. 1/18X26 SPECIAL					
				STEMS		STEMS		CYLINDER	INDENT	GOOD	-	_		THE FRICTION SEPARATOR EFFECTIVELY
														REMOVED THISTLE WITH A MINIMAL CROP
														LOSS. THE VELVET ROLLS, DRAPER,
1							REMOVE CANADA		VINYL BAR, VINYL-					BLOWER, SCREENS AND GRAVITY TABLE
		CRISPUM	PARSLEY	CIRSIUM	ARVENSE	CANADA THISTLE	THISTLE	FRICTION	SUEDE BELT	GOOD	9	0		WERE INEFFECTIVE.

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	P. P	FP NOTES	CONCLUSION
						REMOVE CANADA						SEVERAL SCREENS WERE TRIED. 6X22 DID A GOOD JOB OF REMOVING VISIBLE THISTLE SEED. SUBMITTER MAY TRY A 6X20 TO GET MORE OF THE	
1235 PETROSELINUM C	RISPUM	PARSLEY	CIRSIUM	ARVENSE	CANADA THISTLE	THISTLE DETERMINE INDENT	SCREEN	6X22 (0.033")	GOOD			THISTLE.	A #8 CYLINDER GAVE THE BEST RESULTS
713 PETROSELINUM C	RISPUM	PARSLEY	LOLIUM		RYEGRASS	SIZE TO REMOVE RYEGRASS	INDENT CYLINDER	#8 CYLINDER, 12 RPM	GOOD				WITH 1% CROP LOSS AND ONLY A TRACE OF RYEGRASS IN THE FINAL PRODUCT.
													GERMINATION RESULTS WERE NOT RETURNED BY THE SUBMITTER, BUT THE ELECTROSTATIC SEPARATOR DID NOT PIN
478 PETROSELINUM C	RISPUM	PARSLEY	PETROSELINUM	CRISPUM	PARSLEY	REMOVE LOW GERMINATION SEED	ELECTROSTATIC						ENOUGH OF THE MATERIAL TO MAKE A SIGNIFICANT DIFFERENCE ANYWAY.
779 PETROSELINUM C	RISPUM	PARSLEY	SCLEROTINA		FUNGUS	REMOVE SCLEROTIA PARTICLES							
						REMOVE NIGHTSHADE, LAMBSQUARTER, SOUR CLOVER, KNOTWEED, MALLOW,							
						BARNYARDGRASS, WILD CHICORY, FOXTAIL, RED PIMPERNEL, BLACK MEDIC, SALTBRUSH, PEPPERGRASS, DOCK, BUCKHORN, MORNINGGLORY, ALFALFA AND						THE 6X20 SCREEN DROPPED NIGHTSHADE, LAMBSQUARTER AND BUCKHORN. THE VIBRATOR	THE SAMPLE WAS SCREENED ON 6X20, HELD FRACTION RUN ON VIBRATOR, AND DOWNHILL FRACTION WAS RUBBED AND PUT ON DRAPER. PURITY ANALYSES WERE NOT
306 PETROSELINUM C	CRISPUM	PARSLEY	VARIOUS		VARIOUS	RYEGRASS.	SCREEN	SEQ.6X20	GOOD			CARRIED DOCK, KNOTWEED, L	MADE.
			VARIOUS		VARIOUS		VIBRATORY	SEQ.600 GRIT, FRACT OVER 6X20					
			VARIOUS		VARIOUS		OTHER	SEQ.RUBBED FRACT. SEQ.DOWNHILL					
			VARIOUS		VARIOUS		DRAPER	FRACTION RUBBED				GERMINATION OF THE LOT WAS	NONE OF THE TECHNIQUES USED WAS ABLE
648 PETROSELINUM C	RISPUM	PARSLEY				REMOVE LOW GERMINATION SEED.	PNEUMATIC SCREEN	1/21 ROUND-HOLE	POOR			72% AND SUBMITTER NEEDED TO RAISE IT TO 80%.	TO CONCENTRATE THE GERMINATING SEED TO AT LEAST 80%.
							SCREEN	4X22 WIRE SLOT	POOR				
							GRAVITY		POOR				RESULTS WERE NOT SATISFACTORY, BUT
677 PETROSELINUM C	RISPUM	PARSLEY			THISTLE	REMOVE THISTLE	FRICTION		POOR		50	THE PNEUMATIC SEPARATOR	MIGHT BE IMPROVED WITH FURTHER RESEARCH.
785 PETROSELINUM H	IORTENSE	PARSLEY	DAUCUS	CAROTA	WILD CARROT	REMOVE WILD CARROT AND BULL THISTLE	SCREEN	6X20 WOVEN WIRE	FAIR	99		WERE ELECTROSTATIC, INDENT LOO DISK AND INDENT CYLINDER.	A 6X20 SCREEN DID THE BEST JOB OF REMOVING THE THISTLE AND CARROT FROM PARSLEY.
			CIRSIUM	VULGARE	BULL THISTLE		PNEUMATIC		POOR	99		99 THREE SAMPLES WERE OBTAINED	
784 PETROSELINUM H	IODTENICE	PARSLEY	PETROSELINUM	UODTENCE	PARSLEY	REMOVE LOW- GERMINATION PARSLEY SEEDS.						BY PASSING THROUGH 1/17, 118 AND 119 HAND SCREENS. THESE FRACTIONS WERE THEN PASSED THROUGH THE PNEUMATIC SEPARATOR.	ALL FRACTIONS PASSED THROUGH THE SCREEDS AND PNEUMATIC SEPARATOR WERE SENT TO SUBMITTER FOR GERMINATION TESTS.
	0.0.12.0.2			HORTENDE								- DEFINATION:	THE VELVET ROLL MADE A GOOD
134 PETUNIA		PETUNIA	AMARANTHUS		PIGWEED	REMOVE PIGWEED REMOVE INERT MATERIAL: STICKS,	VELVET ROLL	SEQ.1/14 RD-HOLE TOP, 1/21 RD-HOLE	GOOD				SEPARATION OF THE PIGWEED. SCREENING FOLLOWED BY PNEUMATIC SEPARATION WAS VERY EFFECTIVE IN
787 PHACELIA N	IEMORALIS	PHACELIA	INERT INERT		INERT INERT	DUST, STONES.	AIR-SCREEN PNEUMATIC	BOTTOM SEQ.	GOOD				CLEANING THE PHACELIA SAMPLE.
						REMOVE RYEGRASS AND							SATISFACTORY SEPARATIONS WERE MADE
381 PHALARIS A	RUNDINACEA	REED CANARYGRASS	LOLIUM		RYEGRASS	ORCHARDGRASS FROM REED CANARYGRASS.	INDENT CYLINDER	#7 OR #8 CYLINDERS	GOOD				WITH #7 AND #8 INDENT CYLINDERS AND V4, V4-1/2 AND V5 INDENT DISCS.
					ORCHARDGRASS		INDENT CYLINDER	#7 OR #8 CYLINDERS	GOOD				
					RYEGRASS		INDENT DISC	V4,V4-1/2 OR V5 DISCS	GOOD				
								V4,V4-1/2 OR V5					
					ORCHARDGRASS		INDENT DISC	DISCS	GOOD		_		
451 PHALARIS C	CANARIENSIS	CANARYGRASS	DACTYLIS AVENA	GLOMERATA FATUA	WILD OAT	REMOVE WILD OATS.	INDENT DISC SCREEN	V6 DISC #8 ROUND-HOLE	GOOD GOOD				THE V6 INDENT DISC MADE AN EXCELLENT SEPARAT
717 PHALARIS C	ANARIENSIS	CANARYGRASS	LOLIUM			REMOVE WHEAT, FLAX AND RAPE SEED.	SCREENS						SUGGESTED STEPS: USE AIR
			DACTYLIS	GLOMERATA	ORCHARDGRASS		PNEUMATIC INDENT CYLINDER	#6 CYLINDER		1	00		
			RAPE										TRIALS WERE UNSUCCESSFUL. A BELT THRESHER WITH SMOOTHER BELTS MIGHT
618 PHASEOLUS A	AUREUS	MUNG BEAN	HULLS		HULLS	REMOVE HULLS	BELT THRESHER		POOR				WORK WITHOUT CRUSHING BEANS. ALSO, A COMMERCIAL SEED SCARIFYING-HULLING MACHINE MIGHT DO THE JOB.
	AUREUS	MUNG BEAN	SEED COATS		SEED COATS	REMOVE SEED COATS	BELT THRESHER BELT THRESHER		POOR				ATTEMPTS WERE UNSUCCESSFUL.
								RUBBING IN SAND ON	FOOR		\top		
							OTHER	RUB BOARD					

NO	CROP GENUS	CROP SPECIES	CROP COMMON		CONTAMINANT	CONTAMINANT COMMON	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP C	R FP	NOTES	CONCLUSION
			NAME	GENUS	SPECIES	NAME		-		TY				
			BUSH BEAN				REMOVE LOW GERMINATION BEANS		190RPM, 13 DEG, 1/2"					FAIR TO GOOD RESULTS WERE HAD WITH THE VELVET ROLLS WHICH THREW OUT THE
280	PHASEOLUS	LIMENSIS	(BLUE LAKE)	PHASEOLUS PHASEOLUS	LIMENSIS LIMENSIS	DIRTY BUSH BEANS DIRTY BUSH BEANS	(THE DIRTY ONES).	SCARIFIER SCREENS	CLEARANCE VARIOUS	GOOD POOR				ROUGHER TEXTURED DIRTY BEANS.
				PHASEOLUS	LIMENSIS	DIRTY BUSH BEANS		PNEUMATIC	VARIOUS	POOR				
349	PHASEOLUS	LUNATUS	BABY LIMA BEAN	DIRT CLODS		DIRT CLODS	REMOVE DIRT CLODS.	SCREENS	SEQ.14/64X3/4 OVER #19	GOOD	98	88 100		A SEQUENCE USING A 14/64X3/4 SCREEN OVER A #19 SCREEN AND THE PNEUMATIC SEPARATOR REMOVED ALMOST ALL THE DIRT. A LENGTH SEPARATOR COULD REMOVE MOST OF THE REST OF THE DIRT. DIRT CAN ALSO BE REMOVED ON THE VELVET ROLLS.
				DIRT CLODE		DIDT CLODE		DNEUMATIC	SEQ.FRACT OVER #19 SCR	GOOD				
				DIRT CLODS DIRT CLODS		DIRT CLODS DIRT CLODS		PNEUMATIC VELVET ROLL	SCR .	GOOD				
1251	PHASEOLUS	VULGARIS	GREEN BEAN	INERT		INERT	REMOVE PEANUTS (SECTIONS OF THE POD CONTAINING BEAN SEED)	SCREEN	SEQ 12/64X3/4 OBLONG	GOOD			THIS SAMPLE REPRESENTED 300 LBS OF BREEDER SEED WITH SOME SEED STILL ENCASED IN A PORTION OF THE HULL. THESE PARTICELS, TERMED PEABUTS, NEED TO BE LOWERED IN PERCENT BEFORE THE MATERIAL CAN BE	USE A 12/64 X 3/4 OBLONG OPENING SCREEN FOLLOWED BY AIR SEPARATION TO REMOVE BEAN SEEDS IN THE HULL (PEANUTS)
									SEQ ESM HIGHEST AIR					
				INERT		INERT		PNEUMATIC	VELOCITY KAMAS, SMALL CLOTH	GOOD				
				INERT		INERT		GRAVITY	DECK	FAIR				
345	PHASEOLUS		PINTO BEAN	CENCHRUS CENCHRUS		SANDBUR SANDBUR	REMOVE SANDBUR	VELVET ROLL SCREEN	120 RPM, 12.5 DEG 8/64X3/4 SLOT	GOOD	1	00 100		THE VELVET ROLLS DID AN EXCELLENT JOB, REMOVING ALL THE SANDBUR WITH LESS THAN 1% CROP LOSS. THE 8/64X3/4 SCREEN ALSO DID WELL REMOVING ALL SANDBUR EXCEPT ONE SMALL PIECE WITH 1% LOSS.
				CENCHRUS		SANDBUR		PNEUMATIC	POLYURETHANE FOAM	FAIR				
				CENCHRUS		SANDBUR		OTHER	ROLLER	POOR				
							REMOVE DIRT CLODS		SEQ. 1.#19 ROUND-					BEST RESULTS WERE OBTAINED USING THE VELVET ROLLS FOLLOWED BY SCREENING. THIS YIELDED A 100% PURE SAMPLE WITH
521	PHASEOLUS		BEAN	CLODS CLODS		CLODS CLODS	AND ROCKS.	SCREEN ELECTROSTATIC	HOLE SEO. 1.	GOOD		96		ONLY 6% LOSS.
				CLODS		CLODS		VELVET ROLL	SEQ. 2.	GOOD				
				CLODS		CLODS		SCREEN	SEQ. 2.#18 ROUND- HOLE	GOOD	1	00 100		
									4 FT WIDE CARPET					THE FRICTION SEPARATOR MADE A VERY
	PHASEOLUS		ALUBIA BEANS CALIFORNIA			CLODS	REMOVE MUD CLODS. REMOVE MUD CLODS AND	FRICTION	BELT, BRUSH BAR	GOOD				SELECTIVE SEPARATION OF THIS SAMPLE. THE VELVET ROLLS DID AN EXCELLENT
443	PHASEOLUS		PINK BEAN	CLODS/ROCKS		CLODS/ROCKS	ROCKS.	VELVET ROLL	REJECT FRACT RERUN	GOOD	1	00 100		JOB.
				CLODS/ROCKS		CLODS/ROCKS		SCREENS		POOR				
				CLODS/ROCKS		CLODS/ROCKS		OTHER	BOUNCE PLATE	POOR				
				CLODS/ROCKS		CLODS/ROCKS		PNEUMATIC		POOR				
				CLODS/ROCKS		CLODS/ROCKS		COLOR SORTER		FAIR				A #16 ROUND-HOLE SCREEN OVER A #13
350	PHASEOLUS		WHITE BEAN	DIRT CLODS		DIRT CLODS	REMOVE DIRT CLODS. REMOVE INERT MATERIAL (STEMS, DIRT CLOD, SMASHED	SCREENS	#16 OVER #13 ROUND-HOLE	GOOD	98	83 100	ABOUT 2% OF THE BEANS IN THE FINAL PRODUCT WERE SOMEWHAT SMASHED OR HAD CRACKS. ATTEMPTS TO REMOVE THESE USING THE VELVEY ROLLS AND	ROUND-HOLE SCREEN WILL RECOVER 87% OF THE BEANS WITH ALMOST NO DIRT. MORE BEANS COULD BE RECOVERED BY LENGTH SEPARATING THE FRACTION THAT WENT THROUGH THE #13 SCREEN. FABA BEANS CAN BE EASILY CLEANED OF INRET MATERIAL USING SCREENS AND AIR. SLIGHTLY SMASHED OR CRACKED BEANS COULD NOT BE SEPARATED. FABA BEANS COULD BE COMMERCIALLY CLEANED USING
							BEANS, BEAN PODS)		SEQ. #25 RD OVER				FRICTION SEPARATOR WERE	THE ABOVE SCREENS AND AIR VELOCITY ON
715	PHASEOLUS		FABA BEAN	INERT INERT		INERT	USING BULK PROCESS.	SCREENS PNEUMATIC	12/64X3/4 SEQ. 1125 FPM	GOOD			UNSUCCESSFUL.	AN AIR-SCREEN MACHINE.
							REMOVE STAINED BEANS		21 222 223					
							THAT HAVE DIRT PRATICLES ATTACHED		CARPET BELT, FOAM					THE FRICTION SEPARATOR REMOVED ABOUT HALF OF THE STAINED BEANS LEAVING
1000	PHASEOLUS		WHITE BEANS	PHASEOLUS		STAINED BEANS	TO SEED COAT.	FRICTION	BAR	FAIR	-	50	FIVE SAMPLES WERE TRANSPORTED	THOSE THAT WERE STAINED BUT SMOOTH
15	PHASEOLUS		TOPCROP BEAN				DETERMINE MECHANICAL INJURY TO BEANS DURING PREUMATIC CONVEYANCE. REMOVE DOG FENNEL, HEDGE MUSTARD,						ABOUT 55 THROUGH A 1" LINE WITH TWO FLOW TYPES, REPEATED RUNS, TWO MOISTURE LEVELS AND TWO DISCHARGE METHODS. GERMINATION AND BROKEN SEED COUNTS WERE THEN COMPARED WITH CONTROL VALUES FOR LOTS NOT CONVEYED. THIS SAMPLE HAD BEEN RUN TWICE ON AN AIR-SCREEN MACHINE, BUT STILL CONTAINED	TEST OPERATIONS THAT APPEAR FAVORABLE WHEN THEIR GERMINATIONS ARE COMPARED WITH CONTROL GERMINATIONS (75.5% AVERAGE) ARE LEAN FLOW AND NO DROP (OME RUN-75.5%, THREE RUNS-74.5%, FIVE RUNS-71%); A THE DRAPER WITH PLASTIC BELT CAN
							PIGWEED AND SHEEP		PLASTIC BELT, 36FPM,				LARGE AMOUNTS OF THE ABOVE	REMOVE A LARGE AMOUNT OF THE HEDGE
46	PHLEUM	PRATENSE	TIMOTHY	ANTHEMIS SISYMBRIUM	COTULA OFFICINALE	DOG FENNEL HEDGE MUSTARD	SORREL.	DRAPER VELVET ROLL	20DEG	FAIR POOR	-	-	CONTAMINANTS.	MUSTARD AND DOG FENNEL.
				AMARANTHUS		PIGWEED		PNEUMATIC		POOR				
				RUMEX	ACETOSELLA	SHEEP SORREL	1	GRAVITY		POOR			<u> </u>	

					T	T				I				
NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	P CR	FP	NOTES	CONCLUSION
								INDENT CYLINDER		POOR				
								CILINDER		POOR			GRAVITY-NOT TRIED DUE TO INSUFFICIENT SEED. LENTH	THE SAMPLE RESPONDED WELL TO THE
									PLASTIC BELT, 36FPM,				VISIBLE LENGTH DIFFERENCE	DRAPER. TIMOTHY WAS REDUCED FROM .95% (10,350/LB) TO 50/LB WITH A CROP
156	PHLEUM	PRATENSE	TIMOTHY	ANTHEMIS	COTULA	DOGFENNEL	REMOVE DOGFENNEL	ELECTROSTATIC					BETWEEN THE SEEDS.	LOSS OF 15%.
				ANTHEMIS ANTHEMIS	COTULA	DOGFENNEL DOGFENNEL		SCREENS VIBRATORY	ROUGH 3/8" SANDPAPER	POOR	99 9'	7 100		
				ANTHEMIS	COTULA	DOGFENNEL		SCREENS		POOR				
				ANTHEMIS ANTHEMIS	COTULA COTULA	DOGFENNEL DOGFENNEL		PNEUMATIC VELVET ROLL		POOR POOR				
				ANTHEMIO	COTOLIA	DOG! ENNED		ELECTROSTATIC		FOOR				
							REMOVE WINTERCRESS AND BUCKHORN							
							PLANTAIN. THIS SAMPLE WAS						THE PNEUMATIC, DRAPER,	BEST RESULTS, BY FAR, WERE WITH THE
							SCREENINGS WHICH						ELECTROSTATIC AND MAGNETIC	VIBRATOR SEPARATOR. RERUNNING THE
							ALSO CONTAINED OTHER							
115	PHLEUM	PRATENSE	TIMOTHY	BARBAREA		WINTERCRESS	WEEDS AND INERT MATERIAL.	VIBRATORY	VERY FINE SANDPAPER DECK	GOOD			IN PERFORMING THIS SEPARATION.	SCREEN MACHINE DID A FAIR JOB. NO QUANTITATIVE RESULTS AVAILABLE.
									VERY FINE SANDPAPER					
				PLANTAGO BARBAREA	LANCEOLATA	BUCKHORN PLANTAIN WINTERCRESS		VIBRATORY AIR-SCREEN	DECK 26X26 W/DAMS, 360RPM	GOOD				
				PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN		AIR-SCREEN	26X26 W/DAMS, 360RPM					
			TIMOTHY					INDENT						
218	PHLEUM	PRATENSE	(CLIMAX)	LYCHNIS		COCKLE	REMOVE COCKLE	CYLINDER	1/19X24 CYLINDER	FAIR	98	8		ALL TRIALS FAILED TO GIVE SAT
								INDENT CYLINDER			90	_		
				LYCHNIS		COCKLE		INDENT	1/18X24 CYLINDER	FAIR	91	-		
				LYCHNIS		COCKLE		CYLINDER	1/17X24 CYLINDER	FAIR	9:			
				LYCHNIS		COCKLE		SCREEN	.032"ROUND-HOLE .041" & .038" ROUND-	POOR	60	U		
				LYCHNIS		COCKLE		SCREENS	HOLE	POOR				
				LYCHNIS		COCKLE		VIBRATORY ELECTROSTATIC		POOR				
				LICHNIS		COCKIE		EBECIROSIATIC		POOR				BEST RESULTS YIELDED BY THE VIBRATOR
														(87% OF LOT WITH 190 COCKLE/LB) AND
			TIMOTHY											THE SCREEN/INDENT/VIBRATOR SEQUENCE. HOWEVER, RESULTS IN ALL CASES GREATLY
219	PHLEUM	PRATENSE	(LORAIN)	LYCHNIS	ALBA	WHITE COCKLE	REMOVE WHITE COCKLE	VIBRATORY	280 GRIT DECK	POOR				EXCEEDED THE REQUIRED 9 COCKLE/LB.
				LYCHNIS	ALBA	WHITE COCKLE		SCREEN	SEQ032"ROUND HOLE SEQ.1/19X24	POOR	80	0		
								INDENT	CYLINDER, THRU FRACT					
				LYCHNIS	ALBA	WHITE COCKLE		CYLINDER	FROM SCR. SEQ.REJECT FRACT	POOR	50	0		
				LYCHNIS	ALBA	WHITE COCKLE		VIBRATORY	FROM INDENT	POOR				
				LYCHNIS	ALBA ALBA	WHITE COCKLE		VELVET ROLL MAGNETIC	100-140 RPM	POOR POOR				
			TIMOTHY	LICHNIS	ALIDA	WHITE COCKLE		MAGNETIC		POOR				
220	PHLEUM	PRATENSE	(CLIMAX)	LYCHNIS		COCKLE	REMOVE COCKLE.	SCREEN INDENT	SEQ038"ROUND-HOLE SEQ.1/19 X 24, THRU					NO RESU
				LYCHNIS		COCKLE		CYLINDER	FRACT FROM SCR	POOR				
				LYCHNIS		COCKLE		VELVET ROLL	CANVAS AND PLASTIC BELTS	POOR				
				LYCHNIS		COCKLE		VIBRATORY	280 GRIT DECK	POOR				
													MATERIA TO ME COMMATAND 520	BEST RESULTS OBTAINED WITH THE
													THIS LOT CONTAINED 539 COCKLE/LB AND 1014	VIBRATOR. BASED ON SEED MEASUREMENTS, A .035" ROUND-HOLE
													CATCHFLY/LB. SINCE THE OSU	SCREEN WOULD BE THE IDEAL SIZE FOR
													SEED TESTING LAB COULD NOT DISTINGUISH BETWEEN THE TWO,	THIS SAMPLE (INSTEAD OF THE .038" WHICH WAS AVAILABLE) IN THE
ا ۔ ۔ ا			CLIMAX						000 000 000				THEY WERE CONSIDERED	SCREEN/INDENT CYLINDER/VIBRATOR
340	PHLEUM	PRATENSE	TIMOTHY	LYCHNIS	ALBA	WHITE COCKLE	REMOVE WHITE COCKLE	VIBRATORY INDENT	280 GRIT DECK .052"DIA X .019"DEEP		00	100	TOGETHER.	SEQUENCE.
				LYCHNIS	ALBA	WHITE COCKLE		CYLINDER	CYLINDER	FAIR 1	00	100		
		+		LYCHNIS	ALBA	WHITE COCKLE	-	SCREEN INDENT	SEQ038 ROUND-HOLE SEQ052"DIA X	1	00			
				LYCHNIS	ALBA	WHITE COCKLE		CYLINDER	.019"DEEP CYLINDER					
				LYCHNIS	ALBA	WHITE COCKLE	REMOVE COCKLE AND	VIBRATORY	SEQ.	FAIR		100		
366	PHLEUM	PRATENSE	TIMOTHY	LYCHNIS	ALBA	WHITE COCKLE	MUSTARD SEED.							BASED ON SEED MEASUREMENTS, A .03
				BRASSICA		MUSTARD								THE ABOVE SEQUENCE USING THE .035"
														ROUND HOLE SCREEN TO REMOVE LARGE
														COCKLE AND THEN THE .050"X.019" INDENT CYLINDER TO REMOVE SMALL
														COCKLE IS THE RECOMMENDED PROCEDURE
367	PHLEUM	PRATENSE	TIMOTHY	LYCHNIS	ALBA	WHITE COCKLE	REMOVE COCKLE	SCREEN	SEQ035" ROUND HOLE		_	_		FOR THIS MIXTURE.
								INDENT	SEQ050"X.019" INDENT, THRU SCREEN					
				LYCHNIS	ALBA	WHITE COCKLE			FRACT					
														BEST RESULTS WERE WITH A .035" ROUND- HOLE SCREEN FOLLOWED BY INDENTING
														WITH A .055" DIA X .024" DEEP
														CYLINDER. ALTHOUGH 98% OF THE COCKLE WAS REMOVED, THIS WAS NOT ENOUGH, AND
404	PHLEUM	PRATENSE	TIMOTHY	LYCHNIS	ALBA	WHITE COCKLE	REMOVE WHITE COCKLE		SEQ035" ROUND-HOLE	FAIR	60	0		CROP LOSS WAS HIGH.
				LYCHNIS	ALBA	WHITE COCKLE		INDENT CYLINDER	SEQ055"DIA X .024"DEEP POCKET	FAIR				
		1	1	PICINID	unn	maria cockus	1	CIDINDER	. OLT DEEF FOCKET	PAIR	_		I.	1

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R I	FP NOTES	CONCLUSION
						REMOVE OTHER CROP SEEDS AND NOXIOUS		SEQ038RH/32X32W/6X					A 74% YIELD WITH A PURITY OF 99.7% WAS OBTAINED WITH THE ABOVE SCREENING SEQUENCE FOLLOWED BY A VIBRATION
232 PHLEUM	PRATENSE	TIMOTHY	MISC. SEEDS		MISC. SEEDS	WEEDS.	SCREENS	28W SEQ.HELD FRACT FROM	GOOD		1	00	SEPARATION.
			MISC. SEEDS		MISC. SEEDS		VIBRATORY	6X28	GOOD		1	00	
						REMOVE BLUEGRASS,							
						VELVETGRASS AND SORREL TO MEET CERTIFICATION		.038 RH, 32X32 WW,				THESE RESULTS WERE BASED ON A SEQUENCE OF SCREENS TO REMOVE ALL THREE CONTAMINANTS. THE	USE .038 RH, 32X32 WW, 6X28 WW IN SEQUENCE TO REMOVE POA SPP., HOLCUS
229 PHLEUM	PRATENSE	TIMOTHY	POA		BLUEGRASS	STANDARDS.	SCREENS	6X28 WW .038 RH, 32X32 WW,	GOOD		+	THROUGH PORTION	LANATUS, AND RUMEX SPP.
			HOLCUS	LANATUS	VELVETGRASS		SCREENS	6X28 WW .038 RH, 32X32 WW,	GOOD				
			RUMEX		DOCK		SCREENS	6X28 WW	GOOD				
						REMOVE BLUEGRASS, VELVETGRASS AND		.038 RH/32X32					
231 PHLEUM	PRATENSE	TIMOTHY	POA		BLUEGRASS	SORREL.	SCREENS	WW/6X28 WW	GOOD		4		THE 6X28 BOTTOM SCREEN HELD 70% OF TH
			HOLCUS	LANATUS	VELVETGRASS		SCREENS	.038 RH/32X32 WW/6X28 WW	GOOD				
			RUMEX		SORREL		SCREENS	.038 RH/32X32 WW/6X28 WW	GOOD				
			KONDI		OORALD		DEREBUNG	WW7 52220 WW	0002				THE INDENT CYLINDER LIFTED SORREL
													NICELY, BUT ALONG WITH MANY SHORT TIMOTHY. A 1/25X24 GA CYLINDER
157 PHLEUM	PRATENSE	TIMOTHY	RUMEX	ACETOSELLA	SHEEP SORREL	REMOVE SHEEP SORREL	INDENT CYLINDER	1/19X24 GA CYLINDER	DA TD			GRAVITY NOT TRIED- INSUFFICIENT SEED.	SHOULD BE ABOUT RIGHT FOR THIS SEPARATION.
157 PHLEUM	PRAIENSE	TIMOTHY	RUMEX	ACETOSELLA	SHEEP SORREL	REMOVE SHEEP SORREL	PNEUMATIC	1/19X24 GA CYLINDER	POOR			INSUFFICIENT SEED.	SEPARATION.
			RUMEX RUMEX	ACETOSELLA ACETOSELLA	SHEEP SORREL		DRAPER ELECTROSTATIC		POOR		+		
			RUMEX	ACETOSELLA	SHEEP SORREL		VELVET ROLL		POOR				
			RUMEX	ACETOSELLA	SHEEP SORREL		SCREENS		POOR		+		A 1/25 ROUND HOLE SCREEN DID AN
809 PHLEUM	PRATENSE	TIMOTHY	RUMEX	ACETOSELLA	SHEEP SORREL	REMOVE SHEEP SORREL	SCREEN	1/25 ROUND-HOLE	GOOD				ADEQUATE JOB OF SEPARATING SHEEP SORREL FROM TIMOTHY. TIMOTHY CAN BE CLEANED AT LOW
877 PHLEUM	PRATENSE	TIMOTHY	RUMEX	ACETOSELLA	SHEEP SORREL	REMOVE SHEEP SORREL	VIBRATORY		GOOD				CAPACITY ON THE VIBRATOR SEPARATOR.
							SCREEN	22X22 WIRE MESH AND .038 RD HOLE	FAIR		75		
		TIMOTHY				REMOVE ALSIKE CLOVER							BEST RESULTS WITH A SCREEN/INDENT CYLINDER/VIBRATOR SEQUENCE. 87% OF THE ORIGINAL LOT WAS SALVAGED WITH 9
221 PHLEUM	PRATENSE	(CLIMAX)	TRIFOLIUM	HYBRIDUM	ALSIKE CLOVER	AND WHITE COCKLE.	SCREEN	SEQ038"ROUND-HOLE					COCKLE/LB.
			LYCHNIS	ALBA	WHITE COCKLE		SCREEN INDENT	SEQ038"ROUND-HOLE SEQ.1/19X26, 30 MIN,	GOOD		-		
			LYCHNIS	ALBA	WHITE COCKLE		CYLINDER	THRU FRACT FROM SCR.	GOOD		4		
			TRIFOLIUM	HYBRIDUM	ALSIKE CLOVER		INDENT CYLINDER	SEQ.1/19X26, 30 MIN, THRU FRACT FROM SCR.					
			LYCHNIS	ALBA	WHITE CLOVER		VIBRATORY	SEQ. 280 GRIT, REJECT FROM INDENT	GOOD				
								SEQ. 280 GRIT,	0002				
			TRIFOLIUM	HYBRIDUM	ALSIKE CLOVER		VIBRATORY	REJECT FROM INDENT					PROCESSING TECHNIQUE WAS THE SAME ONE USED FOR #221. ADDITIONAL VIBRATOR TRIALS AND RERUNS WERE CARRIED OUT
222 PHLEUM	PRATENSE	TIMOTHY (CLIMAX)	TRIFOLIUM		CLOVER	REMOVE CLOVER, COCKLE AND MINT.							WITH BEST RESULTS BEING A 60% YIELD WITH 50 COCKLE/LB.
222 PHLEUM	PRAIENSE	(CLIMAX)	LYCHNIS		COCKLE	COCKLE AND MINI.							WITH 50 COCKLE/LB.
			MENTHA		MINT	REMOVE VARIOUS WEEDS					+		
						INCLUDING FESCUE,		SEQ.1/24 RD.					REMOVAL OF MANY OF THE CONTAMINANT
						BENTGRASS, VETCH DOCK, ETC. BY SCREEN		SCALPER, 6X20 TOP SCR., 30X30 BOTTOM					SEEDS IN THIS MIXTURE IS POSSIBLE BY USE OF THE AIR SCREEN MACHINE AND
783 PHLEUM	PRATENSE	TIMOTHY	VARIOUS		VARIOUS	AND GRAVITY TABLE.	AIR-SCREEN GRAVITY	SCR.	GOOD		-		GRAVITY TABLE.
						RUN SEEDS THROUGH CONVEYING SYSTEM TO	GRAVIII	SEQ.	GOOD				TWO SEED LOTS WERE SENT THROUGH THE CONVEYING SYSTEM AT THREE DIFFERENT CONVEYING CONDITIONS. ALL FRACTIONS
						DETERMINE DAMAGE TO							WERE SENT TO SUBMITTER FOR
	PRATENSE	TIMOTHY				SEEDS.					+		GERMINATION TESTS.
												THE WIND MOD COVER SEC. 1-	THE BLOWING/SCREENING SEQUENCE GAVE THE BEST RESULTS. SALVAGING 80% OF
			CHRYSANTHEMU									THE VIBRATOR SALVAGED 55% OF THE PHLOX WITH VERY FEW	THE PHLOX WITH NEARLY ALL
459 PHLOX		PHLOX	M CHRYSANTHEMU		CHRYSANTHEMUM	REMOVE CHRYSANTHEMUM	PNEUMATIC	SEQ. SEQ.4X20,6X21,4X22SL	GOOD		+	CHRYSANTHEMUM PRSENT.	CHRYSANTHEMUM REMOVED.
			M		CHRYSANTHEMUM		SCREENS	OTS,1/14RH	GOOD				
			CHRYSANTHEMU M		CHRYSANTHEMUM		VIBRATORY		FAIR				
			CHRYSANTHEMU		CHRYSANTHEMUM				POOR				
			CHRYSANTHEMU				ELECTROSTATIC				+		
			М		CHRYSANTHEMUM		VELVET ROLL		POOR				THE VIBRATOR YIELDED THE BEST RESULTS, REMOVING 96% OF THE
456 PHLOX	-	PHLOX	IBERIS		CANDYTUFT	REMOVE CANDYTUFT	VIBRATORY		GOOD		96		CANDYTUFT WITH 12% LOSS.
	+		IBERIS IBERIS		CANDYTUFT CANDYTUFT		VELVET ROLL ELECTROSTATIC		POOR POOR		+		
			IBERIS		CANDYTUFT		PNEUMATIC		POOR				
			IBERIS		CANDYTUFT		SCREEN		POOR				

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			IBERIS		CANDYTUFT		MAGNETIC		POOR			
												BEST RESULTS WITH A 1/15 ROUND-HOLE SCREEN AND A 6X24 SLOTTED SCREEN. NEARLY THE SAME JOB COULD BE DONE WITH A COMBINATION OF SCREENING AND
458 PHLOX		PHLOX	SOLANUM		NIGHTSHADE	REMOVE NIGHTSHADE	SCREENS	1/15 AND 6X24 SLOT	FAIR	91		BLOWING.
			SOLANUM		NIGHTSHADE NIGHTSHADE		ELECTROSTATIC		POOR			
			SOLANUM		NIGHTSHADE		VIBRATORY PNEUMATIC		POOR			
			SOLANUM		NIGHTSHADE		VELVET ROLL		POOR			
1186 PICEA	PUNGENS	BLUE SPRUCE										
	ANISUM	ANISE	ECHINOCHLOA	CRUSGALLI	BARNYARDGRASS	REMOVE BARNYARDGRASS					HIGH VALUE. ONE TON LOT.	
106 PINUS	ELLIOTTII	SLASH PINE									MAIL ALDRAMOR GERARAMOR WAG	
1055 PINUS	LAMBERTIANA	SUGAR PINE	INERT		INERT	REMOVE NEEDLES, CONE PIECES, PITCH AND TWIGS	FRICTION		GOOD		THE VIBRATOR SEPARATOR WAS UNSUCCESSFUL. THE BOUNCE PLATE AND INCLINED DRAPER SHOWED LIMITED SUCCESS. THIS PROBLEM SAMPLE ORIGINALLY #662. SEE #662 AND #1054 FOR SAME PROBLEM WITH DOUGLAS FIR AND WESTERN WHITE PIME.	THE FRICTION SEPARATOR WORKED VERY WELL. THE REJECT MATERIAL WAS RERUN
1055 PINUS	LAMBERITANA	SUGAR PINE	INERI		INERI	TWIGS	FRICTION		GOOD		VIBRATOR, BOUNCE PLATE AND	IIME.
1054 PINUS	MONTICOLA	WESTERN WHITE PINE	INERT		INERT	REMOVE NEEDLES, CONE PIECES, PITCH AND TWIGS					INCLINED DRAPER WERE UNSATISFACTORY. THIS PROBLEM SAMPLE FORMENLY #662. SEE #662 AND #1055 FOR SAME PROBLEM WITH DOUGLAS FIR AND SUGAR PINE. THE COMBINATION OF	THE FRICTION SEPARATOR WORKED VERY WELL. THE REJECT MATERIAL WAS REFUN FOUR TIMES, SALVAGING SEED EACH TIME. USE FICTION SEPARATOR WITH FIRM FOAM
1000		WESTERN				REMOVE PITCH AND					ELECTROSTATIC AND SCREENING	SEPARATOR BAR TO REMOVE PITCH
1088 PINUS	MONTICOLA	WHITE PINE	INERT INERT		PITCH PITCH	CONE PARTS	FRICTION MAGNETIC	FIRM FOAM BAR NO WATER	POOR	75 50	100 WAS I	PARTICLES.
			INERT		PITCH			LIFTING POSITION	GOOD	75 95		
			INERT		PITCH		SCREEN	LAST IN SEQUENCE SEE NOTES	GOOD	97 60	99	
			INERT				INDENT	NOTES	GOOD	37 00	33	
			INERT		CONE PARTS		CYLINDER	7.0MM DRUM	FAIR	75 80	60	
661 PINUS	PONDEROSA	PONDEROSA PINE				SIZE SEEDS BY LENGTH						THE SEEDS WERE LENGTH GRADED BY V6 1/2 AND M INDENT DISKS AND #16 INDENT CYLINDER. FRACTIONS WILL BE EVALUATED BY SUBMITTER
												THE PNEUMATIC SEPARATOR DID A VERY
101 PINUS	TAEDA	LOBLOLLY	EMPTIES		EMPTY SEEDS	REMOVE EMPTY SEEDS.	VIBRATORY		POOR			GOOD JOB OF REMOVING LIGHT EMPTY SEEDS FROM FULL ONES.
			EMPTIES		EMPTY SEEDS		PNEUMATIC		GOOD	34 99	99	
105 PINUS	TAEDA	LOBLOLLY PINE LOBLOLLY	PINUS	TAEDA	EMPTY SEEDS	REMOVE EMPTY SEEDS	PNEUMATIC		GOOD	56 100	100	THE PNEUMATIC SEPARATOR PERFORMED A VERY GOOD SEPARATION.
581 PINUS	TAEDA	PINE										
176 PIPER	NIGRUM	BLACK PEPPER	PIPER	NIGRUM	BLACK PEPPER	REMOVE ROUND, SMOOTH, LIGHT- COLORED PEPPERCORNS (THE DESIRED CROP) FROM ROUND, ROUGH, DARK-COLORED PEPPERCORNS.	DRAPER	PLASTIC BELT, 44FPM, 7.5DEG	GOOD	4.3 97	58	THE SCREEN/PNEUMATIC SEQUENCE
								PLASTIC BELT, 40FPM,				
			PIPER PIPER	NIGRUM NIGRUM	BLACK PEPPER BLACK PEPPER		DRAPER SCREEN	6.5DEG SEQ.10.5/64" SCREEN	GOOD	4.3 99	85	
			PIPER	NIGRUM	BLACK PEPPER		PNEUMATIC	SEQ.	GOOD	4.3	100	
				NIGRUM NIGRUM	BLACK PEPPER BLACK PEPPER		VIBRATORY VELVET ROLL	VARIOUS DECKS 10DEG, 225RPM	POOR	4.3 92	24	
			PIPER	NIGRUM	BLACK PEPPER		PNEUMATIC	TODEG, ZZSRPM	POOR	4.3 92	24	
						SEPARATE CRACKED						
19 PISTACA	VERA	PISTACHIO				FROM WHOLE NUTS: SEE ORIGINAL REPORT.						
19 PISTACA	VERA	PISTACHIO				SEPARATE CRACKED PISTACHIO NUTS FROM						VARIOUS BELT-BAR COMBINATIONS WERE TRIED AND THE FRICTION SEPARATOR SHOWED POTENTIAL. AN EXTREMELY AGGRESSIVE CARPET WITH A FAIRLY STIFF
695 PISTACIA	VERA	PISTACHIO				UNCRACKED ONES.	FRICTION					FOAM BAR IS RECOMMENDED.
								FINE WEAVE/CLIPPED NAP CARPET, FOAM				THE FRICTION SEPARATOR WORKS WELL IN
835 PISUM	SATIVUM	PEA	DIRT		DIRT	REMOVE DIRT CLODS	FRICTION	WEATHERSTRIP BAR	GOOD			THE FRICTION SEPARATOR WORKS WELL IN SEPARATING DIRT CLODS FROM PEAS.
						REMOVE ROCKS, STICKS						THE PNEUMATIC SEPARATOR REMOVED MOST,
	SATIVUM	SPLIT PEAS	INERT		INERT	AND GLASS	PNEUMATIC	20/64RH, 15/64RH,			THIS REQUEST WAS TO DETERMINE APPROXIMATE CLEANOUT OF FIELD	
1214 PISUM	SATIVUM	PEA	INERT				SEQUENCE	AIR, GRAVITY	GOOD	100		
						REMOVE VARIOUS WEED SEED SAVING THE RAPE SEED. TO BE REMOVED ARE OATS, BARLEY, WEEDS, STRAW AND						THE ABOVE SEQUENCE YIELDS A 99.6% PURE PEA SAMPLE WHEN THE WHOLE PEAS AND SPLIT PEAS ARE MIXED. THIS COULD
716 PISUM	SATIVUM	PEA	MISC INERT		MISC INERT	INERT MATERIAL.	SCREEN	SEQ. 8/64X3/4 SLOT SEQ. 1110 FPM	GOOD		TO S	BE ACCOMPLI
			INERT		INERT		PNEUMATIC INDENT	SEQ. IIIU FPM	GOOD		100	
		1	MISC	1	MISC		CYLINDER	SEQ. #16 CYLINDER	GOOD	1 1	100	

ACT 1985	NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP	CR FP	NOTES	CONCLUSION
A CATTON	40 1	PISUM	SATIVUM	PEAS	PHASEOLUS		BEANS		VELVET ROLL		GOOD				
	64 1	OTSUM	SATIVIIM	DEA	DISIM	SATIVIIM	CRACKED DEAS		VELVET BOLL		POOR				NO SATISFACTORY METHOD WAS FOUND TO
Column C	041	1504	DATIVON					CRACKED COATS.							REMOVE FEAS WITH CRACKED SEED COATS.
Company Comp															
10 10 10 10 10 10 10 10					PISUM						POOR				
10 10 10 10 10 10 10 10								DEMOVE DEAC MITTU							THE PEAS WERE WERE PROCESSED IN A DRY
139 1420	352 I	PISUM	SATIVUM	PEA	PISUM	SATIVUM	CRACKED-COAT PEAS		MAGNETIC	IRON POWDER	POOR				
14 15 15 15 15 15 15 15															
Married Marr					PISUM	SATIVUM	CRACKED-COAT PEAS		OTHER	BOUNCE PLATE	POOR			THIS WORK INVOLVED SEVERAL	
1.00														SAMPLES OF PEA SEED WITH VARYING GERMINATION PERCENTAGES. SUBMITTER REQUESTED THAT THE MATERIAL	
100 100															
PARTY STATE STAT	1199	PISUM	SATIVUM	PEA	PISUM	SATIVUM	LOW GERM PEA		SCREENS	SEQ	FAIR				
15 15 15 15 15 15 15 15															
Section Sect										CARDET BELT SCOTCU-					THE FRICTION SEPARATOR REMOVED ALL
PALATE SAMOR TO PART STATE OF THE STATE OF T	890 I	PISUM	SATIVUM	SWEET PEA	TROPAEOLUM		NASTURTIUM	REMOVE NASTURTIUM	FRICTION		GOOD		100 100		
STATE PART								PEAS AFTER CONVEYANCE IN THE USDA DENSE-PHASE						OUT WITH A 1 1/2" PIPE SYSTEM THAT HAD A 30' VERTICAL RISE AND AN 8' HORIZONTAL RIN. SOME LOTS WERE DISCHARGED INTO A HOPPER AND FELL 24' INTO A SACK. ALL TESTS WERE BATCH OPERATIONS.	RESULTS SHOWED THAT NO GERMINATION DAMAGE OCCURED WHICH COULD BE ATTRIBUTED TO THE HANDLING BY CONVEYOR. LOTS THAT PASSED THROUGH THE AIRLOCK DID SHOW A SLIGHTLY HIGHER AMOUNT OF BROKEN PEAS.
DETERMINE AMOUNT OF DATE OF THE PARK STITUM SATIVUM ORED PAS SATIVU	73 1	PISUM						PEAS AFTER CONVEYANCE IN THE USDA DENSE-PHASE						OUT IN A 1 1/2" PIPE SYSTEM CONSISTING OF A 30' VERTICAL RISE AND AN 8' HORIZONTAL RUN. SOME LOTS WERE DISCHARGED INTO A HOPPER AND THEN FELL 24' INTO A SACK. ALL TESTS WERE BATCH	NO GERMINATION DAMAGE OCCURED THAT COULD BE ATTRIBUTED TO HANDLING. LOTS THAT PASSED THROUGH THE AIRLOCK DID SHOW A SLIGHTLY HIGHER AMOUNT OF DAMAGED PEAS.
DETERMINE AMOUNT OF DAMAGE TO PEAS DETERMINE AMOUNT OF DAMAGE TO PEAS DAMAGE	152 I	PISUM	SATIVUM	GREEN PEAS				DAMAGE TO PEAS DUE TO HANDLING IN USDA FLUIDIZED CONVEYOR. CONVEYOR CONSISTS OF A 56' RUN OF 1-1/2"						START, THEN 6951: BREAKAGE=5% LEAN-PHASE, 2PSI, THROUGH AIR-LOCK, 26' DROP: BREAKAGE=3% LEAN-PHASE, 2PSI, THROUGH AIR-LOCK, NO DROP: BREAKAGE=2% LEAN-PHASE, 2PSI, BYPASS AIR-LOCK, NO DROP:	ELIMINATED WITH A DROP-THROUGH LOCK WITH FLEXIBLE BLADE TIPS AND A WIPER
AIR PRESSURE AT 3-5 PSIG ADM VALVE OPEN 1 1/2 THE SULT THE SULED AND 10 PEA UNHULLED UNHULLED UNHULLED UNHULLED UNHULLED ON SHOOTH PEAS. AIR PRESSURE AT 3-5 PSIG ADM VALVE OPEN 1 1/2 UNING DANN OCCURED TO 24 OF THE PEAS (B) POSSIBLY BECAUSE OF THE ROTAL AIRLOCK. REMOVE HOLLOW-HEART PAIR PAIR PAIR PAIR PAIR PAIR PAIR PAIR	153 I	PISUM	SATIVUM	YELLOW PEA				DAMAGE TO PEAS DURING HANDLING BY USDA FLUIDIZED CONVEYOR CONSISTING OF 56' OF 1-						START, THEN 6 PSI: 5% BREAKAGE LEAN PHASE, THROUGH AIR-LOCK, 26' DROP, 2PSI: 3% BREAKAGE LEAN PHASE, THROUGH AIR-LOCK, NO DROP, 2PSI: 2% BREAKAGE LEAN PHASE, BYPASS AIR-LOCK, NO DROP, 2PSI: 1%	THE BREAKAGE OBSERVED WAS DUE TO THE AIRLOCK AND COULD BE REDUCED OR ELIMINATED WITH A DROP-THROUGH LOCK WITH FLEXIBLE BLADE TIPS AND A WIPER AT THE FEED INLET.
949 PISUM PEA PISUM PEA PEA PREMATIC FAIR WERE ACCEPTABLE INCONCLUSIVE PISUM PEA FRICTION POOR PISUM PEA SCREEN 18/64 RH FAIR PISUM PEA SCREEN 18/64 RH FAIR UNHULLED SEPARATE HULLED AND SEPARATE HULLED AND UNHULLED UNHULLED UNHULLED PEAS. ALTHOU TRIED, THE COLOR SORTER MIGHT PISUM PEA UNHULLED UNHULLED UNHULLED SCREEN POOR UNHULLED UNHULLED SCREENS POOR UNHULLED UNHULLED UNHULLED SCREENS POOR UNHULLED UNHULLED UNHULLED PRICTION POOR UNHULLED UNHULLED THE SCREENS POOR UNHULLED UNHULLED TRIED, THE BELT THRESHER AND FELAMENT THE BELT THRESHER AND REMOVE HUSK FROM REMOVE HUSK FROM REMOVE HUSK FROM PEA PREMATIC POOR THE ACCEPTABLE INCONCLUSIVE INCONCLUSIVE PAIR OF ACCEPTABLE INCONCLUSIVE PAIR O	474 1	PISUM	SATIVUM	SMOOTH PEAS				SMOOTH PEAS DURING FLUIDIZED CONVEYING.							AIR PRESSURE AT 3-5 PSIG AND AUX AIR VALVE OPEN 1 1/2 TURNS. DAMAGE OCCURED TO 2% OF THE PEAS (BY WEIGHT) POSSIBLY BECAUSE OF THE ROTARY
PISUM PEA PE	949 1	PISUM		PEA	PISUM		PEA		PNEUMATIC		FAIR				INCONCLUSIVE
THE VIRRATOR SEPARATOR WAS THE MACKING SEPARATOR WAS THE SEPARATOR WAS THE SEPARATOR WAS THE SEPARATOR. THE FIRST SEPARATOR WAS THE SEPARATOR WAS THE SEPARATOR. THE FIRST SEPARATOR WAS THE SEPARATOR. THE FIRST SEPARATOR. THE FIRST SEPARATOR WAS THE SEPARATOR. THE FIRST SEPARATOR WAS THE SEPARATOR. THE SEPARATOR WAS THE SEPARATOR WAS THE SEPARATOR WAS THE SEPARATOR. THE SEPARATOR WAS THE VIRRATORY SEPARATOR WAS THE SEPARATOR WAS THE SEPARATOR WAS THE VIRRATORY SEPARATOR WAS THE SEPARATOR WAS TH					PISUM		PEA		FRICTION		POOR				
UNHULLED UNHULLED SCREENS POOR UNHULLED UNHULLED FRICTION POOR UNHULLED UNHULLED PNEUMATIC POOR THE BELT THRESHER AND FILAMENT THRESHER AND FILAMENT THRESHER DID NOT	1081	PISUM			UNHULLED		UNHULLED		VIBRATORY	SANDBLASTED ALUMINUM	GOOD	60	90 90		THE VIBRATOR SEPARATOR WAS THE ONLY MACHINE THAT PERFORMED THE SEPARATION. THE FINAL SAMPLE WAS ABOUT 90% HULLED PEAS. ALTHOUGH NOT TRIED, THE COLOR SORTER MIGHT BE VERY EFFECTIVE IN MAKING THIS SEPARATION.
UNHULLED UNHULLED UNHULLED FRICTION POOR UNHULLED UNHULLED PNEUMATIC POOR THE BELT THRESHER AND FILMMENT THRESHER AND FILMMENT THRESHER DID NOT	\vdash														
THE BELT THRESHER AND REMOVE HUSK FROM FILAMENT THRESHER DID NOT					UNHULLED		UNHULLED		FRICTION		POOR				
REMOVE HUSK FROM FILAMENT THRESHER DID NOT					UNHULLED		UNHULLED		PNEUMATIC		POOR				
945 PLANTAGO PLANTAIN SEED. SCARIFIER PNEUMATIC WORK ON THIS SAMPLE. THE SCARIFIER MECHANICAL	945 1	PLANTAGO		PLANTAIN										FILAMENT THRESHER DID NOT	THE

NO	CROP GENUS	CROP SPECIES	CROP COMMON	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR	FF	NOTES	CONCLUSION
			NAME	GENUS	SPECIES	NAME	EACH SEED FLORET HAS			- 11		-			
							COTTONY TUFT OF								
							FIBER WHICH CATCHES OTHERS LEADING TO								
							VERY DIFFICULT								
							HANDLING. PHYSICAL								
							CHARACTERISTICS OF SEED MUST BE CHANGED								
			TEXAS				SO THAT SEED CAN BE		BINDING AGENTS-						MANY METHODS WERE TRIED IN ATTEMPTING
39	POA	ARACHNIFERA	BLUEGRASS	TUFTS		TUFTS	PLANTED READILY.	OTHER	PELLETIZE SEED	POOR					TO SOLVE THIS PR THE PNEUMATIC AND ELECTROSTATIC
															SEPARATORS PERFORMED THE BEST, BOTH
			MERION KENTUCKY				REMOVE IMMATURE, GROATED QUACKGRASS								YIELDING A PURE SAMPLE. SCREENING AND THE VIBRATOR GAVE ENCOURAGING
146	POA	PRATENSIS	BLUEGRASS	AGROPYRON	REPENS	QUACKGRASS	(96.5 SEEDS/LB)	SCREEN	4X30	FAIR	90	89	9	8	RESULTS.
				AGROPYRON	REPENS	QUACKGRASS		VIBRATORY	FINE SANDPAPER DECK	FAIR	90	89	9	8	
									14KV, HOR=0,VERT=11,ROT=-2	2-					
				AGROPYRON	REPENS	QUACKGRASS		ELECTROSTATIC	1/2	GOOD		100			
				AGROPYRON	REPENS	QUACKGRASS		PNEUMATIC		GOOD	90	100	10	0	SCREENING WAS UNSATISFACTORY DUE TO
															GREAT SHRINKAGE OF THE LOT. A
															SEPARATION WAS ATTEMPTED ON A
			MERION KENTUCKY				REMOVE QUACKGRASS								.084"DIAX.03"DEEP INDENT CYLINDER, BUT THE GROATS WERE LOST IN THE
192	POA	PRATENSIS	BLUEGRASS	AGROPYRON	REPENS	QUACKGRASS	GROATS	SCREEN	.032" ROUND-HOLE	POOR					MACHINE SO NO RESULTS ARE AVAILABLE.
															NO TRIALS WERE SUCCESSFUL. SEED MEASUREMENTS INDICATED THAT A
															.0285 DIAM ROUND-HOLE SCREEN SHOULD
															DROP 58% OF THE BLUEGRASS FREE OF
			MERION KENTUCKY				REMOVE QUACKGRASS								QUACKGRASS. A .028" SCREEN WAS MADE UP, BUT IT DROPPED ONLY ABOUT 1/8TH
194	POA	PRATENSIS	BLUEGRASS	AGROPYRON	REPENS	QUACKGRASS	GROATS	SCREEN	.028" ROUND-HOLE	POOR	92	2 100	10	0	OF THE BLUEGRASS.
				AGROPYRON AGROPYRON	REPENS REPENS	QUACKGRASS QUACKGRASS		SCREEN MAGNETIC	.032" ROUND-HOLE	POOR		-			
				AGROPYRON	REPENS	QUACKGRASS		ELECTROSTATIC		POOR					
				AGROPYRON	REPENS	QUACKGRASS		VIBRATORY		POOR					
				AGROPYRON	REPENS	QUACKGRASS		PNEUMATIC		POOR					NO SATISFACTORY WAY OF REMOVING
			KENTUCKY				REMOVE QUACKGWASS		20KV, HOR=9, VER=10, RO						QUACKGRASS GROATS FROM BLUEGRASS WAS
238	POA	PRATENSIS	BLUEGRASS	AGROPYRON AGROPYRON	REPENS REPENS	QUACKGRASS QUACKGRASS	GWOATS.	ELECTROSTATIC SCREENS	T=-1,90DEG VARIOUS SIZES	POOR		100	10	0	FOUND.
				AGROPYRON	REPENS	QUACKGRASS		PNEUMATIC	VARCIOUS SIZES	POOR					
				AGROPYRON	REPENS REPENS	QUACKGRASS		VELVET ROLL		POOR					
				AGROPYRON AGROPYRON	REPENS	QUACKGRASS QUACKGRASS		MAGNETIC VIBRATORY		POOR					
															A #4 INDENT CYLINDER REMOVE ALL
			MERION												PIGWEED AND SOME PLANTAIN. THEN THE 6X28 SLOTTED SCREEN REMOVE ABOUT 90%
			KENTUCKY				REMOVE PIGWEED AND	INDENT						THE VIBRATOR WAS UNSUCCESSFUL	OF THE PLANTAIN. THERE WAS VERY
466	POA	PRATENSIS	BLUEGRASS	AMARANTHUS		PIGWEED	BUCKHORN PLANTAIN	CYLINDER	SEQ.#4 CYLINDER SEQ.6X28, UNLIFTED	GOOD		100	10	0 WITH THIS PROBLEM.	LITTLE CROP LOSS.
				PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN		SCREEN	FRACT FROM INDENT	GOOD		9(0		
			MEDION												THE INDENT CYLINDER WITH .03" DEEP X .075"DIAM POCKETS DID THE BEST
			MERION KENTUCKY					INDENT	.03"DEEPX.075"DIAM						YIELDING 94% OF THE CROP WITH A
178	POA	PRATENSIS	BLUEGRASS	ANTHEMIS	COTULA	DOGFENNEL	REMOVE DOGFENNEL	CYLINDER	POCKETS	GOOD	80	9 (5 9	9	PURITY OF 98.9%.
				ANTHEMIS	COTULA	DOGFENNEL		INDENT CYLINDER	.03"DEEPX.084"DIAM POCKETS	GOOD	80	9!	5 9	9	
				- INVIIIDI-IIO	COTOLLI	DOG! BINIDE		CTITABLE	TOCKETO	0002					ACCORDING TO SEED MEASUREMENTS, A
			MERION KENTUCKY												.05" INDENT CHOULD LIFT THE SNAPDRAGON. OTHER DIMENSION
444	POA	PRATENSIS	BLUEGRASS	ANTIRRHINUM		SNAPDRAGON	REMOVE SNAPDRAGON								SEPARATIONS ARE NOT LIKELY.
															NO METHODS TRIED WERE SUCCESSFUL.
			MERION KENTUCKY				REMOVE CANADA								BASED ON SEED MEASUREMENTS, A ROUND- HOLE SCREEN WITH .0275" HOLES SHOULD
184	POA	PRATENSIS	BLUEGRASS	CIRSIUM	ARVENSE	CANADA THISTLE	THISTLE	PNEUMATIC		POOR					REDUCE THISTLE CONTENT SHARPLY.
				CIRSIUM	ARVENSE	CANADA THISTLE		DRAPER ELECTROSTATIC		POOR		1			
										2 3010		1			BEST RESULTS OBTAINED USING A .033"
1															ROUND-HOLE SCREEN TO SCALP OFF WIDE THISTLE (A .035" MIGHT DO BETTER), A
															6X30 SLOTTED SCREEN TO DROP THIN
1			MERION												THISTLE AND LEAFY TRASH, AND A #5
418	POA	PRATENSIS	KENTUCKY BLUEGRASS	CIRSIUM	ARVENSE	CANADA THISTLE	REMOVE CANADA THISTLE.	SCREENS	SEQ033" RH OVER 6X30 SLOT	GOOD					INDENT CYLINDER TO LIFT BLUEGRASS FROM REMAINING THISTLE.
-10								INDENT							
-				CIRSIUM	ARVENSE ARVENSE	CANADA THISTLE CANADA THISTLE		CYLINDER VIBRATORY	SEQ.#5 CYLINDER	GOOD POOR		+	+		
				CIRSIUM	ARVENSE	CANADA THISTLE		PNEUMATIC		POOR			\pm		
														CONVENTIONAL METHODS FOR	
														ACCOMPLISHING THIS SEPARATION HAVE FAILED SO SOME	
														UNCONVENTIONAL ONES WERE	
F.C.0	DOM	PRATENSIS	KENTUCKY BLUEGRASS	ERGOT		ERGOT	REMOVE ERGOT.	MAGNETIC						TRIED. ERGOT AND BLUEGRASS WERE HEA	CONVENTIONAL METHODS WERE USED
562	POA	FRAIBNOIS	DEUEGRASS	ERGUI		ERGU1	REMOVE ERGUI.	PAGNETIC	SEQ.			+	+	WERE DEM	CONVENTIONAL METHODS WERE USED
1									BACKSLOPE=.2,						
			ADELPHI						ENDSLOPE=9.5, AIR=2.5, SPEED=730,					INDENT CYLINDER WAS USED ON SAMPLE FROM THE TWO PASSES ON	CONVENTIONAL EQUIPMENT WAS INEFFECTIVE IN REDUCING ERGOT LEVELS
			KENTUCKY				REMOVE ERGOTIZED		DECK=PERF. CU.					GRAVITY TABLE AND SAMPLE FROM	TO REQUIRED 0.1% WHILE KEEPING CROP
737	POA	PRATENSIS	BLUEGRASS	ERGOT		ERGOTIZED SEED	BLUEGRASS SEED	GRAVITY	W/DAMS	FAIR	94	1 90	10 ال	0 PNEUMATIC SEP.	LOSS BELOW 20%.

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP	CR	FP NOTES	CONCLUSION
									SEQ. BACKSLOPE=.2, ENDSLOPE=9.5, AIR=2.5, SPEED=730,					
				ERGOT		ERGOTIZED SEED		GRAVITY	DECK=PERF. CU. W/DAMS	FAIR	100	40	100	
									CONTINUOUS FEED,					
				ERGOT		ERGOTIZED SEED		PNEUMATIC INDENT	6X6" COLUMN SEQ. 1/25X28 INDENT	FAIR	94	90	100	
				ERGOT		ERGOTIZED SEED		CYLINDER	CYLINDER	GOOD			100	
29	POA	PRATENSIS	MERION BLUEGRASS	FUZZ		FU2Z	REMOVE STEMS, TRASH AND FUZZ FROM SEED COAT.	DEBEARDER	SEQ.85RPM, 2 HRS	GOOD				THE TREATMENT WAS DIRECTED TOWARD OBTAINING A FREE-FLOWING SEED MASS THAT COULD BE EASILY BE HANDLED BY VOLUMETIC METERING DEVICES. 84% OF THE ORIGINAL SAMPLE WAS RECOVERED MEETING THIS REQUIREMENT. NO ATTEMPT WAS MADE TO REMOVE FORFIGN SEED.
				STEMS		STEMS		PNEUMATIC	SEQ.	GOOD				
				STEMS/TRASH		STEMS/TRASH		AIR-SCREEN	SEQ.1/14 OVER 6X32	GOOD				
117	РОА	PRATENSIS	MERION KENTUCKY BLUEGRASS	HOLCUS HOLCUS	LANATUS LANATUS	VELVETGRASS VELVETGRASS	REMOVE VELVETGRASS	VIBRATORY AIR-SCREEN	FINE SANDPAPER DECK	GOOD	91 91			THE VIERATOR IS THE BEST METHOD, RECLAIMING 82% OF THE ORIGINAL SAMPLE NEARLY PURE. A 30X30 SCREEN ON THE AIR-SCREEN MACHINE RECLAIMED 81% OF THE SAMPLE WITH 32,500 VELVETGRASS/LB AND A 28X28 SCREEN RECLAIMED 66% WITH 13,200 VELVETGRASS/LB.
				HOLCUS	LANATUS LANATUS	VELVETGRASS VELVETGRASS		AIR-SCREEN DRAPER	28X28 W/DAMS	FAIR	91			
									COPPER AND CLOTH					
-				HOLCUS HOLCUS	LANATUS LANATUS	VELVETGRASS VELVETGRASS		GRAVITY PNEUMATIC	DECKS	POOR				
								INDENT						
-				HOLCUS HOLCUS	LANATUS LANATUS	VELVETGRASS VELVETGRASS		CYLINDER INDENT DISC		POOR				
				HOLCUS	LANATUS	VELVETGRASS		ELECTROSTATIC		POOR				
				HOLCUS	LANATUS	VELVETGRASS		OTHER		POOR				BEST RESULTS BY USING THE PNEUMATIC
248	POA	PRATENSIS	KENTUCKY BLUEGRASS	INERT		INERT	REMOVE PERENNIAL SOW THISTLE.	PNEUMATIC	SEQ	GOOD				BEST RESULTS BY USING THE PREUMATIC SEPARATOR TO REMOVE MOST OF THE IMMATURE SEED AND INERT MATTER, THEN RUNNING THE UNLIFTED PORTION OVER THE VIBRATOR.
				SONCHUS	NDVIDNOT O	PERENNIAL SOWTHISTLE		WIDDAMODY	SEQ.8/0 280 GRIT DECK	GOOD		100	100	
				SONCHUS	ARVENSIS ARVENSIS	PERENNIAL SOWTHISTLE		VIBRATORY SCREENS	VARIOUS	POOR		100	100	
				SONCHUS	ARVENSIS	PERENNIAL SOWTHISTLE		ELECTROSTATIC		POOR				
			KENTUCKY						KAMAS W/CANVAS BLOCK	c			THIS WAS AN 8 LB LOT OF BREEDER SEED WITH 10% SOIL. A GRAVITY TABLE REMOVED A MAJORITY OF THE SOIL WITH	
1155	POA	PRATENSIS	BLUEGRASS	INERT		SOIL	REMOVE SOIL	GRAVITY	OFF DECK	GOOD	85	95	100 VERY LITTLE LOSS.	USE GRAVITY TABLE TO REMOVE SOIL
				INERT		SOIL		VIBRATORY	SANDBLASTED ALUMINUM DECK	FAIR				
141	POA	PRATENSIS	MERION KENTUCKY BLUEGRASS	TIONS CERT		LIGHT SEED	DETERMINE IF AIR SEPARATION CAN SALVAGE A SALABLE PRODUCT FROM THIS LOT WHICH IS A CUT NEAR THE LOW EDGE OF A GRAVITY TABLE.		ESM	G00D			ADJUSTMENTS ON THE FRACTIONATING ASPIRATOR WERE DIFFICULT TO MAKE AND THE ROLL FEEDER PROVIDED POOR	BEST RESULTS WITH THE ESM WHICH SALVAGED ABOUT 41% OF THE LOT AT 7.65LB/BU (ORIGINAL DENSITY WAS 6.86LB/BU). A HIGHER AIR SETTING WOULD PROBABLY INCREASE THE DENSITY,
141	POA	PRATENSIS	BLUEGRASS	LIGHT SEED		LIGHT SEED	THIS TEST W	PNEUMATIC	FRACTIONATING	GOOD			FEED CONTROL.	BUT WITH GREATER CROP LOSS.
400			MERION	LIGHT SEED		LIGHT SEED	REMOVE SORREL, PIGWEED AND	PNEUMATIC	ASPIRATOR	POOR				CERTIFIED BLUE-TAG REQUIREMENTS FOR THIS SAMPLE WERE APPROACHED, BUT COULD NOT BE MET. THE MAIN PROBLEM WAS LINITING SORREL TO 27 PER POUND. 45 PER POUND WAS ACHIEVED ON THE
48	POA	PRATENSIS	BLUEGRASS	LOLIUM		RYEGRASS	RYEGRASS.	VIBRATORY INDENT	FINE TEXTURED DECK	FAIR				INDENT CYLINDER IN A 17 MINUTE RUN.
								CYLINDER	#4 CYLINDER, 7RPM	FAIR				
								PNEUMATIC DRAPER		FAIR POOR				
								SCREENS		POOR				
				AMARANTHUS RUMEX		PIGWEED SORREL		ELECTROSTATIC INDENT DISC		POOR				
346	POA	PRATENSIS	MERION KENTUCKY BLUEGRASS	LOLIUM		RYEGRASS RYEGRASS	REMOVE RYEGRASS	SCREEN	SEQ038" ROUND-HOLE SEQ. R3-1/2 DISC					THE .038*SCREEN SCALPED OFF MUCH OF THE LARGER RYEGRASS AND THE R 3-1/2 DISC DID A GOOD JOB OF LIPTING BLUEGRASS WITH ONLY A TRACE OF SHORT RYEGRASS.
110	POA	PRATENSIS	KENTUCKY BLUEGRASS	MISC.		MISC.	REMOVE WEED SEEDS AND INERT MATERIAL INCLUDING CHAFF, STEMS, ROCKS, ETC.	PNEUMATIC	SEQ.	GOOD	60		SAMPLES FROM THE PNEUMATIC SEPARATOR WERE SENT THROUGH THE VIBRATOR AND THE ELECTROSTATIC SEPARATOR WITH LITTLE IMPROVEMENT.	BEST RESULTS WITH BLOWING FOLLOWED BY SCREENING ALTHOUTH THE FINAL SAMPLE STILL CONTAINED A WIDE SIZE RANGE OF ROCKS AND STEMS.
				MISC.		MISC.	Jane, Rocke, Brc.	SCREEN	SEQ. 1/25 OR 28X28	GOOD			TITLE TO VENERAL.	
1092	POA	PRATENSIS	RUGBY KENTUCKY BLUEGRASS	PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN	REMOVE BUCKHORN PLANTAIN (135/LB).	SCREEN	6X30 WOVEN-WIRE	FAIR	100	29		THE 2.0MM INDENT CYLINDER PERFORMED THE BEST, REMOVING 89% OF THE BUCKHORN WITH A CROP LOSS OF 7%.

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR	FP NOTES	CONCLUSION
							INDENT	2.0 MM CYLINDER,		100			
			PLANTAGO PLANTAGO	LANCEOLATA LANCEOLATA	BUCKHORN PLANTAIN BUCKHORN PLANTAIN		CYLINDER PNEUMATIC	24RPM	GOOD FAIR	100	82		
			PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN		GRAVITY	CLOTH DECK	FAIR				
		MERION KENTUCKY				REMOVE ANNUAL							BECAUSE OF THE WEIGHT DIFFERENCE BETWEED THE SEEDS, THE PNEUMATIC SEPARATOR SHOWED SOME PROMISE, BUT THE RESULTS WERE NOT REPEATABLE WITH A LARGER LOT. A CATAPULT DEVICE
145 POA	PRATENSIS	BLUEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	BLUEGRASS	PNEUMATIC	ESM	FAIR	66	100	100	SHOWED SOME SEPARATING POTENTIAL.
			POA	ANNUA	ANNUAL BLUEGRASS		OTHER	CATAPULT DEVICE	FAIR				
			POA POA	ANNUA ANNUA	ANNUAL BLUEGRASS ANNUAL BLUEGRASS		ELECTROSTATIC VIBRATORY		POOR				
		MERION KENTUCKY	FOR	ANIOS	ANNORE BEODEWASS	REMOVE BULBOUS	VIBRATORI		FOOR				ALL TRIALS WERE UNSATISFACTORY. THE BEST APPROACH SEEMED TO BE SCREENING WITH A 26226 WIRE MESH SCREEN WHICH HELD MANY CONTAMINANTS IN A REJECT FRACTION, BUT THE DROPPED FRACTION (85% YIELD) STILL HAD EXCESSIVE
209 POA	PRATENSIS	BLUEGRASS	POA	BULBOSA	BULBOUS BLUEGRASS	BLUEGRASS	PNEUMATIC		POOR				AMOUNTS OF BULBOUS BLUEGRASS.
			POA	BULBOSA	BULBOUS BLUEGRASS		SCREENS	VARIOUS	POOR				
			POA	BULBOSA	BULBOUS BLUEGRASS		INDENT CYLINDER		POOR				
			POA	BULBOSA	BULBOUS BLUEGRASS BULBOUS BLUEGRASS		VIBRATORY		POOR				
			POA	BULBOSA	BULBOUS BLUEGRASS		ELECTROSTATIC		POOR				
			POA	BULBOSA	BULBOUS BLUEGRASS		VELVET ROLL		POOR				
			POA	BULBOSA	BULBOUS BLUEGRASS		DRAPER		POOR	\vdash			
		WINDSOR KENTUCKY				DETERMINE SCREEN SIZE THAT WILL SCALP OFF BLUEGRASS DOUBLES. CLEAN PRODUCT SHOULD CONTAIN LESS THAN 2%							THE 26X26 SCREEN WITH DAMS IS RECOMMENDED. IN TRIALS, 90% OR MORE OF THE SINGLES WERE RECOVERED WITH AN
284 POA	PRATENSIS	BLUEGRASS	POA	PRATENSIS	BLUEGRASS DOUBLES	DOUBLES.	AIR-SCREEN	26X26 W/DAMS	GOOD				ACCEPTABLY LOW DOUBLES COUNT.
		MERION KENTUCKY				REMOVE KENTUCKY BLUEGRASS FROM FOUNDATION MERION							BASED ON SEED MEASUREMENTS, A 6/64X24GA INDENT CYLINDER WAS
327 POA	PRATENSIS	BLUEGRASS	POA	PRATENSIS	KENTUCKY BLUEGRASS	BLUEGRASS. CAN ANNUAL BLUEGRASS							RECOMMENDED FOR THIS SEPARATION. BASED ON MEASUREMENTS, THERE IS NO
331 POA	PRATENSIS	MERION KENTUCKY BLUEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	BE REMOVED BY LENGTH SEPARATION USING AN INDENT CYLINDER.							HOPE FOR LENGTH, WIDTH OR THICKNESS SEPARATION OF ANNUAL BLUEGRASS FROM MERION KENTUCKY BLUEGRASS.
		MERION											THE RECOMMENDED PROCEDURE IS TO DROP HALF THE CANADA BLUEGRASS WITH THE
397 POA	PRATENSIS	KENTUCKY BLUEGRASS	POA	COMPRESSA	CANADA BLUEGRASS	REMOVE CANADA BLUEGRASS	SCREEN	SEQ.4X30 SLOT	GOOD				4X30 SLOT AND REMOVE THE LOW-DENSITY CANADA WITH THE GRAVITY TABLE.
JJ7 FOR	FIGHTENOIS	BEOEGICADO	POA	COMPRESSA	CANADA BLUEGRASS	BEOEGRASS	GRAVITY	SEQ. 4830 SEOI	GOOD				CANADA WIII IIIB GRAVIII IADDE.
		KENTUCKY				REMOVE ANNUAL BLUEGRASS FROM THIS ALREADY-SCREENED	INDENT						THE BEST APPROACH WAS LENGTH SEPARATION WITH A #6 INDENT CYLINDER WHICH REDUCED ANNUAL BLUEGRASS TO
406 POA	PRATENSIS	BLUEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	LOT.	CYLINDER	#6 CYLINDER	POOR				18/LB WITH 40% LOSS.
			POA POA	ANNUA ANNUA	ANNUAL BLUEGRASS ANNUAL BLUEGRASS		ELECTROSTATIC VIBRATORY		POOR POOR				
		KENTUCKY				REMOVE ANNUAL							THE CROP AND CONTAMINANT ARE TOO
484 POA	PRATENSIS	BLUEGRASS	POA POA	ANNUA ANNUA	ANNUAL BLUEGRASS ANNUAL BLUEGRASS	BLUEGRASS	SCREENS PNEUMATIC		POOR		-		SIMILAR TO PERMIT SEPARATION.
		MERION	POA	ANNUA	ANNUAL BLUEGRASS	REMOVE ANNUAL	PNEUMATIC		POOR				
491 POA	PRATENSIS	KENTUCKY BLUEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	BLUEGRASS ON VIBRATOR.	VIBRATORY	180 GRIT SANDPAPER DECK	GOOD	75			FRACTIONS WERE GIVEN TO SUBMITTER FOR EVALUATION.
						REMOVE ANNUAL							ATTEMPTS AT SEPARATION WERE UNSUCCESSFUL. AN INDENT CYLINDER, MAYBE A #6 1/2, MIGHT LIFT MOST OF
530 POA	PRATENSIS	KENTUCKY BLUEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	BLUEGRASS	SCREENS	ROUND-HOLE AND SLOTS	POOR				THE CONTAMINANT, BUT WOULD ALSO LIFT 25-30% OF THE CROP.
			POA	ANNUA	ANNUAL BLUEGRASS		PNEUMATIC		POOR				
		KENTUCKY				REMOVE ANNUAL						SEPARATION WAS ATTEMPED BY INDENT CYLINDER, SCREENS, PNEUMATIC COLUMN, GRAVITY TABLE, VIBRATOR, AND	NONE OF THE MACHINES USED RESULTED IN SEPARATIONS THAT COULD BE APPLIED TO COMMERCIAL SEED CLEANING PROCESSES
752 POA	PRATENSIS	BLUEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	BLUEGRASS						ELECTROSTATIC SEPARATOR.	FOR THIS MIXTURE.
1102 POA	PRATENSIS	KENTUCKY BLUEGRASS	POA	PRATENSIS	UNDELINTED KENTUCKY BLUEGRASS	DELINT	SCARIFIER	LAH W/#26 ROUND WIRE MANTLE	GOOD			THIS WAS A BREEDER LOT THAT NEEDED DELINTING BEFORE CLEANING AND PLANTING	LAH HULLER SCARIFIER DID A GOOD JOB OF DELINTING BLUEGRASS SEED. LOT TOOK ABOUT 4 HOURS TO CONDITION.
												A GRAVITY TABLE WAS USED TO SEPARATE LOW DENSITY SEED. THREE FRACTIONS WERE CREATED WITH WEIGHTS GIVEN BELOW. THE LIGHT FRACTION COMPRISING	
1120 POA	PRATENSIS	KENTUCKY BLUEGRASS	POA	PRATENSIS	LOW GERM SEED	IMPROVE GERMINATION OF STOCK SEED	GRAVITY	KAMAS WITH SMALL CLOTH DECK	GOOD			18% OF THE ORIGINAL WEIGHT	GRAVITY TABLE SUCCESSFULLY UPGRADES GERMINATION OF KENTUCKY BLUEGRASS
		KENTUCKY				REMOVE ANNUAL BLUEGRASS FROM	INDENT		0002			THIS WAS A SMALL LOT FOR A	OBMINITION OF REMITORNEY PROPERTY.
1145 POA	PRATENSIS	BLUEGRASS MERION KENTUCKY	POA	ANNUA	ANNUAL BLUEGRASS	KENTUCKY BLUEGRASS	CYLINDER	2.35 MM POCKET				GROWOUT TEST.	THE 4X24 SCREEN SHOWED THE BEST RESULTS, BUT STILL ONLY REMOVED 47% OF THE SHEEPSORREL. THE INDENT CYLINDERS PICKED UP SORREL EFFECTIVELY, BUT ALSO TOO MUCH BLUEGRASS. A WIPER BRUSH WOULD HAVE
210 POA	PRATENSIS	BLUEGRASS	RUMEX	ACETOSELLA	SHEEPSORREL	REMOVE SHEEP SORREL	SCREEN	4X24 WIRE MESH	FAIR		47		REDUCED CROP LOSS.
						III IIII OOMABB	INDENT	.052X.025 &					
1	1		RUMEX	ACETOSELLA	SHEEPSORREL		CYLINDER	.059X.019 TRIED	POOR				

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY IP	CR FP	NOTES	CONCLUSION
			DELTA KENTUCKY				REMOVE CURLY DOCK (IMMATURE, YELLOW,					DOCK CONTENT IN ORIGINAL SAMPLE WAS 90/LB. SINCE THIS WAS SO LITTLE, AN ARTIFICIAL MIXTURE OF 58 SEEDS EACH OF DOCK AND BLUEGRASS WAS MADE UP AND USED IN ALL THE	BEST PRACTICAL RECOMMENDATION IS 1/25 ROUND-HOLE SCREEN WITH DAMS. BASED ON THE TRIALS, THIS SHOULD REDUCE DOCK CONTENT FROM 90/LB TO 8/LB, WELL
243	AO	PRATENSIS	BLUEGRASS	RUMEX	CRISPUS CRISPUS	CURLY DOCK CURLY DOCK	SIDES COLLAPSED).	VIBRATORY SCREEN	80 GRIT DECK 1/25 ROUND-HOLE		0 100 100 0 91 92		WITHIN CERTIFICATION LIMITS.
				RUMEX	CRISPUS	CURLY DOCK		SCREEN	SEQ.1/25 ROUND-HOLE	GOOD 50			
								INDENT	SEQ075DIAX.03DEEP				
				RUMEX	CRISPUS CRISPUS	CURLY DOCK CURLY DOCK		CYLINDER SCREEN	POCKET .038"ROUND-HOLE	GOOD FAIR 50	100 100		
			BANFF KENTUCKY	TO THE STATE OF TH	CATO		REMOVE SPEEDWELL TO	ocksan.	1000 1000			THE OSU SEED TESTING LAB RETURNED RESULTS OF THE INDENT CYLINDER TEST AND SHOWED 0.52% TOTAL WEEDS WITH SPEEDWELL BEING 4113/LB AND ANNUAL BLUEGRASS BEING	THE INDENT CYLINDER IS A GOOD SOLUTION THAT SHOULD MEET THE
1179	OA	PRATENSIS	BLUE GRASS	VERONICA	SP	SPEEDWELL	LESS THAN .5%	SCREENS	6X34	POOR 9	7 10 97	136/LB.	CONTRACTUAL PURITY REQUIREMENTS.
				VERONICA	SP	SPEEDWELL		INDENT CYLINDER	1.75MM	GOOD 9	7 50 98		
			MERION KENTUCKY	VERONICA	or .	SPERMERE	REMOVE CANADA THISTLE AND OTHER	CIBINDER	1.75mm	GOOD 9	7 30 36		PRELIMINARY WORK WITH SCREENS, INDENT DISK AND INDENT CYLINDER PROVED INCONCLUSIVE. LOT WAS SUBSEQUENTLY
203	AO	PRATENSIS	BLUEGRASS FULKING				CONTAMINANTS.						CLEANED UP AND SOLD.
			KENTUCKY										
408	AO	PRATENSIS	BLUEGRASS				MEASURE SEEDS.						MEASUREMENTS ONLY.
1236	POA	PRATENSIS	KENTUCKY BLUEGRASS										
1257		SCABRELLA	BEOEGRASS										
1245	POA .	TRIVALIS	ROUGHSTALK BLUEGRASS	INERT		INERT	DELINT AND CLEAN	SCARIFIER	LAH W/14X14WW MANTLE 16X16WW TOP, 6X36WW	GOOD 709	\$ 99	THIS WAS TWO BREEDER LOTS OF P. TRIVALIS. THE RATTAIL FESCUE WAS FOUND AFTER DELINTING AND SCREENING AND WAS MOSTLY REMOVED USING THE INDENT CYLINDER. A SLIGHTLY LARGER SIZE WOULD PROBABLY GIVE BETTER RESULTS BUT	USE A BRUSH DEPEARDER AND 16X16WW TOP AND 6X36WW BOTTOM SCREENS FOLLOWED BY INDENT CYLINDER WITH 3.0MM POCKET TO CONDITION FIELD RUN FOA TRIVALIS.
				INERT		INERT		AIR-SCREEN	BOTTOM AND AIR	GOOD			
				1112111		THERE!		INDENT					
				VULPIA	MYUROS	RATTAIL FESCUE		CYLINDER	3MM POCKET	FAIR		THIS WORK INCLUDED SEVERAL	
1198	°OA		ROUGH STALK BLUEGRASS	POA		UNTHRESHED ROUGH STALK BLUEGRASS	DEWOOL	SCARIFIER	LAH W/26X26 WIRE MANTLE	GOOD		BAGS OF BREEDER SEED TO BE CONDITIONED FOR INCREASE. THE LAH BRUSH MACHINE WAS USED WITH 26X26 WIRE MANTLE. SEED WAS RUN THROUGH THE DISCHARGE OPENING WH	
369	POA		ROUGH BLUEGRASS	CAPSELLA	BURSA-PASTORIS	SHEPHERDSPURSE CHICKWEED	MEASURE SEEDS OF ROUGH BLUEGRASS, CHICKWEED, SHEPHERDSPURSE AND BIG MOUSEAR AND MAKE RECOMMENDATIONS TO REMOVE THE WEEDS FROM THE BLUEGRASS.	SCREEN SCREEN	.018" SLOT				A .0468"DIA X .020"DEEP INDENT
				CAPSELLA	DIIDGA_DAGTODIG	SHEPHERDSPURSE		INDENT CYLINDER	.0468"DIA X .020"DEEP POCKET				
					- I I I I I I I I I I I I I I I I I I I			INDENT	.0468"DIA X				
						CHICKWEED	-	CYLINDER INDENT	.020"DEEP POCKET				
				CERASTIUM	VULGATUM	BIG MOUSEAR		CYLINDER	.0468"DIA X .020"DEEP POCKET				
1122	POA		ROUGH STALK BLUEGRASS	INERT		STRAW, CHAFF	REMOVE SHORT STRAWS	SCREEN	SEQ 1/14RH OR 20X20	GOOD		THIS IS A COMMERCIAL LOT THAT IS 12% INERT, HAS 5889 RATTAIL FESCUE/LB AND 82 ANNUAL BLUEGRASS/LB. THE VALUES GIVEN FOR LOSS ARE ACTUALLY SHRINKAGE. THE 40% FIGURE FOR THE	
								INDENT					
				INERT		STRAW, CHAFF STRAW, CHAFF		CYLINDER PNEUMATIC	SEQ 3MM	GOOD			
				INDRI		DIRAW, CHAFF		INDENT		GOOD			
			ROUGH	VULPIA	MYUROS	RATTAIL FESCUE	REMOVE ANNUAL	CYLINDER	3 MM SEQ038" OVER .026"	GOOD		THE FRACTION HELD BY THE .026 SCREEN WAS SPLIT IN HALF. ONE HALF WAS RUN THROUGH A .075*DIA X .030*DEEP INDENT CYLINDER AND THE OTHER WAS RUN THROUGH A .084*DIA X .030*DEEP INDENT. ALL FRACTIONS WERE SENT TO	
357	POA	TRIVIALIS	BLUEGRASS	POA	ANNUA	ANNUAL BLUEGRASS	BLUEGRASS	AIR-SCREEN INDENT	RH			SUBMITTER FOR EVALUATION.	NO RESULTS AVAILABLE.
				POA	ANNUA	ANNUAL BLUEGRASS		CYLINDER	SEQ.SEE NOTES				

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FP NOTES	CONCLUSION
		ROUGH				REMOVE CHICKWEED AND	INDENT	OFCHDIA W GLOHDERD				THE .056 DIA X .019 DEEP INDENT CYLINDER RECOVERED 96% OF THE
359 POA	TRIVIALIS	BLUEGRASS			CHICKWEED	INERT MATERIAL.	CYLINDER	.056"DIA X .019"DEEP POCKET	GOOD		100	BLUEGRASS AT A PURITY OF 99.8%.
							INDENT	.056"DIA X .019"DEEP				
			INERT		INERT		CYLINDER	POCKET	GOOD		100	A NUMBER OF SCREENS WERE TRIED AND
		NEWPORT										THE 6X32 PRODUCED EXCELLENT RESULTS
244 POA		BLUEGRASS	AIRA		HAIRGRASS	REMOVE HAIRGRASS.	SCREEN	6X32	GOOD			WITH 5% CROP SHRINKAGE.
												THE ELECTROSTATIC DID THE BEST, DROPPING 5% OF THE SAMPLE CONTAINING
												ALL THE WILD GARLIC. THE 1/24 SCREEN
												ALSO DID WELL, REMOVING 80% OF THE
173 POA		NEWPORT BLUEGRASS	ALLIUM	VINEALE	WILD GARLIC	REMOVE ALL WILD GARLIC.	ELECTROSTATIC	18KV, HOR=1.5, VER=11.	GOOD	100	100	GARLIC ALONG WITH 2% OF THE BLUEGRASS.
173 POA		BLUEGRASS	ALLIUM	VINEALE	WILD GARLIC	GARLIC.	SCREEN	1/24 ROUND HOLE	GOOD	8		BUULGRASS.
			ALLIUM	VINEALE	WILD GARLIC		PNEUMATIC		POOR			
-			ALLIUM	VINEALE	WILD GARLIC		VELVET ROLL DRAPER		POOR			
							DICAFEIC		FOOR			GOOD RESULTS WERE OBTAINED WITH A
		RYEGRASS,										6X30 SLOTTED SCREEN, PNEUMATIC
626 POA		VICTA	ALLIUM	VINEALE	WILD GARLIC	REMOVE WATER FOXTAIL	SCREEN PNEUMATIC	6X30	GOOD	8:	0 100	SEPARATOR, AND VIBRATOR SEPARATOR.
							VIBRATORY	SANDPAPER DECK	GOOD		100	
							FRICTION		POOR			
						REMOVE LAMBSQUARTER, WILD MUSTARD, COMMON						THE PNEUMATIC SEPARATOR WAS TRIED, BUT BEST RESULTS WERE HAD WITH A
						CHICKWEED AND						SEQUENCE OF SEQUENCE OF SCREENING AND
475 POA		BLUEGRASS		ALBUM	LAMBSQUARTER	OTHERS.	SCREEN		GOOD			INDENT CYLINDER SEPARATION.
			BRASSICA	RAPA	WILD MUSTARD		SCREEN INDENT	SEQ.4X26 SLOTTED	GOOD			
			STELLARIA	MEDIA	COMMON CHICKWEED		CYLINDER	SEQ.#4 CYLINDER	GOOD			
												THE .033" ROUND-HOLE SCREEN IS
		S-2										RECOMMENDED. IT HELD ALL CRABGRASS AND A FEW BLUEGRASS DOUBLES AND
411 POA		BLUEGRASS	DIGITARIA		CRABGRASS	REMOVE CRABGRASS.	SCREEN	.033" ROUND-HOLE	GOOD			DROPPED THE REST OF THE BLUEGRASS.
												BEST RESULTS WERE OBTAINED WITH 2
												PASSES ON THE PNEUMATIC SEPARATOR, WHICH STILL LEFT THE LOT WITH 7.7%
												ERGOT AT 30.9% CROP LOSS. A
15 500						REMOVE ERGOT	PNEUMATIC	0 220020		00 0		COMBINATION OF SCREENING AND BLOWING
17 POA		BLUEGRASS	ERGOT		ERGOT ERGOT	REMOVE ERGOT	ELECTROSTATIC	2 PASSES	FAIR POOR	89 3	J 92	MIGHT YIELD BETTER RESULTS.
			ERGOT		ERGOT		GRAVITY		POOR			
												ALL METHODS WERE UNSUCCESSFUL. SCREENING AND BLOWING LOST 15% OF
												CROP AND FINAL PRODUCT WAS STILL FAR
477 POA		BLUEGRASS	ERGOT		ERGOT	REMOVE ERGOT	SCREEN	SEQ038" ROUND-HOLE				FROM ACCEPTABLE. "LOOKS HOPELESS".
-			ERGOT		ERGOT	REMOVE TALL FESCUE	PNEUMATIC	SEQ.	POOR			THE GRAVITY TABLE HELPED, BUT DID NOT
						GROATS AND						MEET THE REQUIREMENTS OF THE
570 POA		BLUEGRASS	FESTUCA	ARUNDINACEA	TALL FESCUE	VELVETGRASS.	GRAVITY		FAIR			SUBMITTER.
			HOLCUS	LANATUS	VELVETGRASS							A SEQUENCE OF AIR SEPARATOR/GRAVITY
												TABLE/PNEUMATIC SEPARATOR YIELDED A
		BLUEGRASS				REMOVE INERT		SEQ. 1/21 RD-HOLE				SAMPLE THAT LOOKED QUITE CLEAN AND
682 POA		(PARADE)	INERT		INERT	MATERIAL	AIR-SCREEN GRAVITY	SCREEN SEQ.				SAVE 86.8% OF THE AVAILABLE SEED.
			INERT		INERT		PNEUMATIC	SEQ.	GOOD			
						THRESH AND SEPARATE FOR GERMINATION						
						TESTS TO DETERMINE						
						HERBICIDE		SEQ.1/8 RD OVER 1/16				SCREENS AND BLOWER CLEANED THE SEED
931 POA		BLUEGRASS	INERT		INERT	EFFECTIVENESS.	SCREENS PNEUMATIC	RD OVER 6X22 SLOT SEQ.				FOR GERMINATION TESTS.
			INERI		INERI		PNEOMATIC	SEQ.				THE R3-3/4 INDENT DISC SALVAGED 88%
		WINDSOR				REMOVE RYEGRASS AND		L				OF THE LOT WITH A PURITY OF 99.94%.
358 POA		BLUEGRASS	LOLIUM	MYUROS	RYEGRASS RATTAIL FESCUE	RATTAIL FESCUE.	INDENT DISC	R3-3/4 DISC R3-3/4 DISC				THESE RESULTS WERE ACCEPTABLE.
			WIII DIA		RATIALL PESCUE		INDENT DISC	R3-3/4 DISC				BEST RESULTS WERE OBTAINED WITH THE
			VULPIA	onob								
			VULPIA									ABOVE SEQUENCE. SIMILAR RESULTS WERE
			VULPIA	110100		REMOVE BENTGRASS,						OBTAINED WITH A PNEUMATIC/VELVET
		PARADE	VULPIA	n i i i i i i i i i i i i i i i i i i i		REMOVE BENTGRASS, SWEET VERNAL GRASS, FOXTAIL AND INERT						
697 POA		PARADE BLUEGRASS	WISC.		MISC.	SWEET VERNAL GRASS,	PNEUMATIC	SEQ.				OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT
697 POA			MISC.			SWEET VERNAL GRASS, FOXTAIL AND INERT		SEQ. 12.5 DEG ANGLE,				OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE
697 POA					MISC. MISC.	SWEET VERNAL GRASS, FOXTAIL AND INERT	PNEUMATIC VELVET ROLL SCREEN		GOOD	56	93	OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE
697 POA		BLUEGRASS	MISC.		MISC.	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL.	VELVET ROLL SCREEN	SEQ. 12.5 DEG ANGLE, 50 RPM	GOOD	56	THE MAGNETIC AND PNEUMATIC	OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED
		BLUEGRASS	MISC. MISC.		MISC.	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL. REMOVE BUCKHORN	VELVET ROLL SCREEN INDENT	SEQ. 12.5 DEG ANGLE, 50 RPM SEQ. 1/24 ROUND HOLE		56	THE MAGNETIC AND PNEUMATIC SEPARATORS DID NOT MAKE A	OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED PROMISE, REMOVING MANY OF THE
697 POA 679 POA		BLUEGRASS	MISC.	LANCEOLATA	MISC.	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL.	VELVET ROLL SCREEN	SEQ. 12.5 DEG ANGLE, 50 RPM	GOOD	56	THE MAGNETIC AND PNEUMATIC	OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED
		BARON BLUEGRASS	MISC. MISC.		MISC.	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL. REMOVE BUCKHORN PLANTAINJ	VELVET ROLL SCREEN INDENT	SEQ. 12.5 DEG ANGLE, 50 RPM SEQ. 1/24 ROUND HOLE		56	THE MAGNETIC AND PNEUMATIC SEPARATORS DID NOT MAKE A	OBTAINED WITH A PNEUMATIC/VELUET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED PROMISE, REMOVING MANY OF THE PLANTAIN WITH A 10% CROP LOSS. C
679 POA		BARON BLUEGRASS NUGGET	MISC. MISC. MISC. PLANTAGO	LANCEOLATA	MISC. MISC. BUCKHORN PLANTAIN	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL. REMOVE BUCKHORN PLANTAINJ REMOVE ANNUAL	VELVET ROLL SCREEN INDENT	SEQ. 12.5 DEG ANGLE, 50 RPM SEQ. 1/24 ROUND HOLE		56	THE MAGNETIC AND PNEUMATIC SEPARATORS DID NOT MAKE A	OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED PROMISE, REMOVING MANY OF THE PLANTAIN WITH A 10% CROP LOSS. C BLUEGRASS CAN BE THRESHED AND CLEANED
679 POA		BARON BLUEGRASS NUGGET	MISC. MISC. MISC. PLANTAGO	LANCEOLATA	MISC. MISC. BUCKHORN PLANTAIN	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL. REMOVE BUCKHORN PLANTAINJ REMOVE ANNUAL	VELVET ROLL SCREEN INDENT	SEQ. 12.5 DEG ANGLE, 50 RPM SEQ. 1/24 ROUND HOLE		56	THE MAGNETIC AND PNEUMATIC SEPARATORS DID NOT MAKE A	OBTAINED WITH A PNEUMATIC/VELUET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED PROMISE, REMOVING MANY OF THE PLANTAIN WITH A 10% CROP LOSS. C
679 POA 509 POA		BARON BLUEGRASS NUGGET BLUEGRASS	MISC. MISC. MISC. PLANTAGO	LANCEOLATA	MISC. MISC. BUCKHORN PLANTAIN	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL. REMOVE BUCKHORN PLANTAINJ REMOVE ANNUAL BLUEGRASS THRESH AND CLEAN	VELVET ROLL SCREEN INDENT CYLINDER	SEQ. 12.5 DEG ANGLE, 50 RPM SEQ. 1/24 ROUND HOLE #5 CYLINDER SEQ.5:1 SPEED, .011*	FAIR	56	THE MAGNETIC AND PNEUMATIC SEPARATORS DID NOT MAKE A	OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED PROMISE, REMOVING MANY OF THE PLANTAIN WITH A 10% CROP LOSS. C BLUEGRASS CAN BE THRESHED AND CLEANED USING THE ABOVE SEQUENCE. FURTHER REMOVAL OF WEED SEEDS AND ERGOT CAN BE OBTAINED WITH INDENT DISCS OR
679 POA		BARON BLUEGRASS NUGGET	MISC. MISC. MISC. PLANTAGO POA	LANCEOLATA	MISC. MISC. BUCKHORN PLANTAIN	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL. REMOVE BUCKHORN PLANTAINJ REMOVE ANNUAL BLUEGRASS	VELVET ROLL SCREEN INDENT CYLINDER BELT THRESHER	SEQ. 12.5 DEG ANGLE, 50 RPM SEQ. 1/24 ROUND HOLE #5 CYLINDER SEQ.5:1 SPEED, .011* CLEAR.	FAIR	56	THE MAGNETIC AND PNEUMATIC SEPARATORS DID NOT MAKE A	OBTAINED WITH A PNEUMATIC/VELUET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED PROMISE, REMOVING MANY OF THE PLANTAIN WITH A 10% CROP LOSS. C BLUEGRASS CAN BE THRESHED AND CLEANED USING THE ABOVE SEQUENCE. FUTHER REMOVAL OF WEED SEEDS AND ERGOT CAN
679 POA 509 POA		BARON BLUEGRASS NUGGET BLUEGRASS	MISC. MISC. MISC. PLANTAGO	LANCEOLATA	MISC. MISC. BUCKHORN PLANTAIN	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL. REMOVE BUCKHORN PLANTAINJ REMOVE ANNUAL BLUEGRASS THRESH AND CLEAN	VELVET ROLL SCREEN INDENT CYLINDER	SEQ. 12.5 DEG ANGLE, 50 RPM SEQ. 1/24 ROUND HOLE #5 CYLINDER SEQ.5:1 SPEED, .011* CLEAR. SEQ.100FPM SEQ.1/12 AND 1/15	FAIR	56	THE MAGNETIC AND PNEUMATIC SEPARATORS DID NOT MAKE A	OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED PROMISE, REMOVING MANY OF THE PLANTAIN WITH A 10% CROP LOSS. C BLUEGRASS CAN BE THRESHED AND CLEANED USING THE ABOVE SEQUENCE. FURTHER REMOVAL OF WEED SEEDS AND ERGOT CAN BE OBTAINED WITH INDENT DISCS OR
679 POA 509 POA		BARON BLUEGRASS NUGGET BLUEGRASS	MISC. MISC. MISC. PLANTAGO POA	LANCEOLATA	MISC. MISC. BUCKHORN PLANTAIN	SWEET VERNAL GRASS, FOXTAIL AND INERT MATERIAL. REMOVE BUCKHORN PLANTAINJ REMOVE ANNUAL BLUEGRASS THRESH AND CLEAN	VELVET ROLL SCREEN INDENT CYLINDER BELT THRESHER	SEQ. 12.5 DEG ANGLE, 50 RPM SEQ. 1/24 ROUND HOLE #5 CYLINDER SEQ.5:1 SPEED, .011* CLEAR. SEQ.100FPM	FAIR	56	THE MAGNETIC AND PNEUMATIC SEPARATORS DID NOT MAKE A	OBTAINED WITH A PNEUMATIC/VELVET ROLL/AIR-SCREEN SEQUENCE, BUT A GREAT DEAL OF CLOGGING OCCURED USING THE CLIPPER. ONLY THE #5 INDENT CYLINDER SHOWED PROMISE, REMOVING MANY OF THE PLANTAIN WITH A 10% CROP LOSS. C BLUEGRASS CAN BE THRESHED AND CLEANED USING THE ABOVE SEQUENCE. FURTHER REMOVAL OF WEED SEEDS AND ERGOT CAN BE OBTAINED WITH INDENT DISCS OR

NO	CROP GENUS	CROP SPECIES	CROP COMMON	CONTAMINANT	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY II	P CR F	NOTES	CONCLUSION
							REMOVE DOGFENNEL AND						ONLY THE VIBRATOR SEPARATOR AND SCREENS GAVE SATISFACTORY RESULTS, AND BECAUSE OF THE QUANTITY OF MATERIAL, THE ABOVE SEQUENCE INVOLVING SCREENS WAS CONSIDERED THE
821	PRIMULA		PRIMROSE	ANTHEMUS	COTULA	DOGFENNEL	INERT MATERIAL.	SCREEN PNEUMATIC	SEQ.1/18 ROUND-HOLE				ONLY PRACTICAL SOLUTION.
								PNEUMATIC	SEQ. SEQ.PREC GRADER,				
								OTHER	.038" CYL.				
				INERT		INERT		PNEUMATIC VIBRATORY	SEQ.	FAIR FAIR	9	8	
				INERI		INERI		VIBRATORY		PAIR		THE ELECTROSTATIC SAMPLE WAS AN ARTIFICIAL MIXTURE MADE UP OF 10 SEEDS EACH OF BARNYARDGRASS, JOHNSONGRASS, POLYGONUM, AND MESQUITE. UNSATISFACTORY RESULTS WERE HAD WITH THE MAGNETIC	NO ENTIRELY SATISFACTORY WAY WAS FOUND TO PERFORM THIS SEPARATION. THE ELECTROSTATIC SEPARATOR DID THE
			VINE				REMOVE BARNYARD GRASS, POLYGONUM AND		20KV, ROT=-2-			SEPARATOR, INDENT CYLINDER AND DISC, PNEUMATIC	BEST, CONCENTRATING BARNYARDGRASS AND JOHNSONGRASS IN A FRACTION CONTAINING
158	PROSOPIS	JULIFLORA	MESQUITE	ECHINOCHLOA	CRUSGALLI	BARNYARDGRASS	JOHNSON GRASS.	ELECTROSTATIC	1/2,HOR=2,VERT=11	FAIR 2	25 90 !	0 SEPARATOR, VELVET ROLLS.	ABOUT 20% OF THE CROP.
				SORGHUM	HALEPENSE	JOHNSONGRASS		ELECTROSTATIC	20KV, ROT=-2- 1/2,HOR=2,VERT=11 20KV, ROT=-2-	GOOD 2	25 100 !	0	
				POLYGONUM		POLYGONUM		ELECTROSTATIC	1/2,HOR=2,VERT=11	POOR 2	25 30 9	0	
				POLYGONUM		POLYGONUM		SCREEN	#5 TRIANGULAR	GOOD			
				POLYGONUM		POLYGONUM		VIBRATORY		FAIR	99	THIS MATERIAL WAS TYPICAL OF	USE VIBRATORY SEPARATOR TO REMOVE
1131	PSEUDOSUGA	MENZEISII	DOUGLAS FIR	INERT		PITCH AND PLANT PARTS		VIBRATORY	SANDBLASTED DECK	GOOD 7	75 90 9	THE SMALL LOTS THAT THE SUBMITTERS WORKED WITH.	PICTH AND CONE PIECES FROM DOUGLAS FIR SEED
				INERT		PITCH AND PLANT			PINNING ELECTRODE	GOOD			
						PITCH AND PLANT			SMOOTH RUBBER BAR,				
1206	DOBINOCHO	MENGELYTT	DOUGLAG BLD	NEEDLES AND INERT		PARTS	REMOVE INERT	FRICTION	12 RH, 6/64 *3/4, 1/8 * 3/4	FAIR		REMOVE INERT MATERIAL INCLUDING UNFILLED SEED. VIBRATORY, GRAVITY, SCREENING, PNEUMATIC, MAGENTIC, FRICTION WERE TESTED. RESULTS WERE INCONCLUSIVE BUT APPROX. 3% INERT REMAINED OF 25% ORIGINAL INERT. SEED WAS BREEDER SEED FROM INDIVIDUAL	
1206	PSEUDOSUGA	MENZEIZII	DOUGLAS FIR	EMPTY SEED			MATERIAL		EMPTY UP	BEST		PARENTS.	
							REMOVE CONE PARTS OF THE SAME SIZE AS THE						TO ROMOVE CONE PARTS FROM DOUGLAS FIR SEED USE A FRICTION SEPARATOR WITH
	PSEUDOSUGA PSEUDOTSUGA	MENZIESII MENZIESII	DOUGLAS FIR DOUGLAS FIR			CONE PARTS EMPTY SEEDS	SEPARATE EMPTY SEED FROM FULL SEED.	FRICTION	FIRM FOAM BAR	POOR	70 99 :	8 THE SEPARATION CA	FIRM FOAM BAR. FAVORABLE RESULTS WERE OBTAINED ON THE GRAVITY TABLE. THE LOW EDGE CONTAINED PREDOMINANTLY EMPTY SEEDS AND THE HIGH EDGE MOSTLY FULL SEEDS. THE MIDDLE FRACTION WAS NOT INVESTIGATED.
				EMPTIES		EMPTY SEEDS		PNEUMATIC	BIND MEMAL MEGIL DROW	POOR			
				EMPTIES		EMPTY SEEDS		GRAVITY	FINE METAL MESH DECK W/DAMS, 480 RPM	FAIR			
467	PSEUDOTSUGA	MENZIESII	DOUGLAS FIR	INERT		INERT	REMOVE NEEDLES, PITCH, CONE DEBRIS	GRAVITY		POOR			THE PNEUMATIC SEPARATOR LIFTED EMPTY SEED AND SOME CONTAMINANT, BUT NOT ENOUGH. THE ELECTROSTATIC SEPARATOR LIFTED ALL CONTAMINANT WITH NO CROP LOSS.
				INERT		INERT		PNEUMATIC	19VV HOD-4 VMD-0	FAIR			
				INERT		INERT		ELECTROSTATIC	18KV, HOR=4, VER=8 1/2, ROT=2, DIV=90DEG	GOOD	100 10	0	
662	PSEUDOTSUGA	MENZIESIT	DOUGLAS FIR			INERT	REMOVE NEEDLES, CONE PIECES, TWIGS AND PITCH		YELLOW CARPET, FIRM	GOOD		VIBRATOR, BOUNCE PLATE AND INCLINED DRAPER WERE UNSATISFACTORY. SEE #1054 AND #1055 (BOTH FORMERLY #662)	THE FRICTION SEPARATOR WORKED VERY WELL. THE REJECT MATERIAL WAS RERUN FOUR TIMES, SALVAGING ADDITIONAL SEED EACH TIME.
102			333223 114				REMOVE WING					The second secon	
							MATERIAL, PITCH AND OTHER INERT		FOAM BAR, CARPET				BEST RESULTS WERE OBTAINED WITH A SOFT CARPET BELT AND RUBBER
687	PSEUDOTSUGA	MENZIESII	DOUGLAS FIR	INERT		INERT	PARTICLES.	FRICTION	BELT RUBBER	FAIR			WEATHERSTRIPPING BAR.
				INERT		INERT		FRICTION	WEATHERSTRIPPING BAR	GOOD			
733	PSEUDOTSUGA	MENZIESII	DOUGLAS FIR	INERT		INERT	REMOVE INERT MATERIAL: CONE MATERIAL, PITCH	FRICTION					NO QUANTITATIVE RESULTS OBTAINED, BUT FRICTION SEPARATION REMOVED INERT MATERIAL FROM DOUGLAS SEED TO WITHIN ACCEPTABLE LEVELS
									PRECISION GRADER, #4				TO CLEAN UP SMALL LOTS OF DOUGLAS FIR NEEDLES AND SEEDS, THE PRECISION GRADER AND AIR COLUMN DO A VERY GOOD
583	PSEUDOTSUGA	MENZIESII	DOUGLAS FIR	NEEDLES		NEEDLES	REMOVE NEEDLES	OTHER	SLOTTED SHELL	GOOD			JOB.
				NEEDLES		NEEDLES		PNEUMATIC		GOOD			

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP CF	F	NOTES	CONCLUSION
						REMOVE PITCH		SEQ.5 1/2V OR 6V				VIBRATOR, BOUNCE PLATE, SCREENS ONLY AND BLOWER WERE UNSATISFACTORY. EFFORTS TO HEAT THE SAMPLE TO SOFTEN THE PITCH, COAT IT WITH MAGNETIC POWDER AND USE THE MAGNETIC SEPARATOR WERE ALSO	BEST RESULTS WERE OBTAINED WITH THE INDENT DISC FOLLOWED BY SCREENING OF UNLIFTED MATERIAL (PRIMARILY SEED). DEPENDING ON WHICH FRACTIONS ARE SAVED, 77% TO 81% OF THE ORIGINAL LOT
563 PSEUDOTSUGA	MENZIESII	DOUGLAS FIR	PITCH		PITCH	PARTICLES.	INDENT DISC	DISCS				UNSUCCESSFUL.	CAN BE SALVAGED.
			PITCH		PITCH		SCREENS	SEQ.1/13X1/2,1/14X1/ 2,1/15X1/2	GOOD	77	9	5	
						REMOVE PITCH		FIBRE-TRAN BAR, GOLD					FRICTION SEPARATOR WORKED VERY WELL. ELECTROSTATIC AND PNEUMATIC
664 PSEUDOTSUGA	MENZIESII	DOUGLAS FIR	PTICH		PITCH	PARTICLES	FRICTION	CARPET	GOOD				SEPARATORS WERE INEFFECTIVE. THE DOUGLAS FIR SEEDS WERE LENGTH GRADED BY INDENT DISK AND INDENT
660 PSEUDOTSUGA	MENZIESII	DOUGLAS FIR				SIZE SEEDS BY LENGTH							CYLINDER. RESULTIN FRACTIONS WILL BE EVALUATED BY SUBMITTER.
						REMOVE INERT MATERIAL: STEMS LEAF, MATERIAL AND							THE VIBRATOR SEPARATOR ALONE WAS INEFFECTIVE, BUT IN THE ABOVE SEQUENCE, YIELDED A CLEAN PRODUCT
674 PSYLLIUM			INERT		INERT	HULLS.	SCREEN	SEQ.1/14 ROUND-HOLE					WITH 10% LOSS.
			INERT		INERT INERT		PNEUMATIC VIBRATORY	SEQ.	GOOD				
						REMOVE INERT		1/14 RD HOLE,6X36					THE PNEUMATIC SEPARATOR OR A 1/14 ROUND-HOLE SCREEN OVER A 6X36 SLOTTED WIRE SCREEN BOTH DO A GOOD JOB OF
680 PSYLLIUM			INERT INERT		INERT	MATERIAL	SCREENS	SLOTTED	GOOD				CLEANING THIS SAMPLE.
1163 PURSHIA	TRIDENTATA	BITTERBRUSH	INERT		INERT	THRESH AND CLEAN	PNEUMATIC		GOOD			SAMPLE RECD. 9-28-90.	
1062 PYCANTHEMUM	VIRGINICUM	MOUNTAIN MINT											
					DISCOLORED RADISH							THIS SAMPLE CAME AS THREE LOTS OF SEED WITH SOME INERT MATERIAL AND SOME DISCOLORED	
1202 RAPHANUS	SATIVUM	DIKON RADISH	RAHPANUS	SATIVUM	SEED		COLOR SORTER					SEED	THE MAGNETIC SEPARATOR FOLLOWED BY
415 RAPHANUS	SATIVUS	RADISH	CONVOLVULUS	ARVENSIS	FIELD BINDWEED	REMOVE FIELD BINDWEED.	MAGNETIC	SEQ.IRON FILINGS & WATER					VIBRATOR DID A GOOD JOB, REMOVING ALL THE BINDWEED WITH 22% LOSS.
			CONVOLVULUS	ARVENSIS	FIELD BINDWEED		VIBRATORY	SEQ.	GOOD	10	0 10		
												PNEUMATIC, ELECTROSTATIC, VIBRATOR AND BOUNCE PLATE	THE MAGNETIC SEPARATOR AND COLOR
507 RAPHANUS	SATIVUS	RADISH	ERGOT		ERGOT	REMOVE ERGOT.	VELVET ROLL MAGNETIC		FAIR GOOD	5	0	WERE INEFFECTIVE.	SORTER DID THE BEST JOB.
			ERGOT		ERGOT		COLOR SORTER		GOOD		5		
													OF THE MACHINES TRIED, ONLY THE MAGNETIC SEPARATOR WAS EFFECTIVE ENOUGH FOR FURTHER STUDY. THE MAGNETIC SEPARATOR REMOVED 84% OF THE
818 RAPHANUS	SATIVUS	RADISH	ERGOT		ERGOT	REMOVE BEDSTRAW REMOVE INERT	MAGNETIC	IRON POWDER	GOOD	98 8	4 10	00	BEDSTRAW WITH ABOUT 8% CROP LOSS. THE FRICTION SEPARATOR IS A GOOD MEANS TO REMOVE DIRT CLODS FROM RADISH SEED. BAR ANGLE IS CRITICAL.
						MATERIAL: MUD CLODS							ANGLES GREATER THAN 15 TO 17 DEGREES
757 RAPHANUS	SATIVUS	RADISH	INERT		INERT	AND ROCKS.	VELVET ROLL	BAR ANGLE=12	FAIR	67 9	2 9	3	GIVE VERY POOR RESULTS.
			INERT		INERT		FRICTION	DEGREES, 4 PASSES MADE	GOOD	72 9			
			INERI		INERI		FRICTION	MADE	GOOD	12 3	, ,	5	ALL MORNINGGLORY WAS REMOVED FROM THE
													BEET SEED WITH LESS THAN 1% LOSS. THE SAMPLE WAS SCREENED WITH A #8-1/2 ROUND-HOLE SCREEN. THE THROUGH FRACTION WAS BLOWN AND THE OVER
447 RAPHANUS	SATIVUS	BEET	IPOMEA		MORNINGGLORY	REMOVE MORNINGGLORY	SCREEN	SEQ.8-1/2 ROUND-HOLE	GOOD				FRACTION WAS PASSED OVER THE VELVET ROLLS.
117 Idii Iliinoo	BIIIIVOD					KENOVE NORWENOCECKE		SEQ.FRCT OVER RH					10225
			IPOMEA		MORNINGGLORY		VELVET ROLL	SCREEN SEQ.FRCT THRU RH	GOOD				
			IPOMEA		MORNINGGLORY		PNEUMATIC	SCREEN	GOOD	10	0 10	0	THE SEQUENCE OF INDENT DISK AND
778 RAPHANUS	SATIVUS	RADISH	MISC.		MISC	REMOVE SCLEROTIA, WHEAT, BARLEY, ETC.	INDENT DISC	SEQ. V-5	GOOD			TOLERANCE LIMIT OF SCLEROTIA WAS .01%.	FRICTION SEPARATOR WORKED THE BEST WITH CROP LOSS OF 4.8% AND 96.4% SCLEROTIA REMOVAL.
. 70 Idil Halvoo						Dimber, Bic.		SEQ. SCOTCHBRITE BAR					
			MISC MISC		MISC MISC		FRICTION VELVET ROLL	INCLINE=12	GOOD POOR				
			MISC		MISC	REMOVE WILD	MAGNETIC		FAIR				THE FRICTION SEPARATOR SHOWED GOOD
586 RAPHANUS	SATIVUS	RADISH	POLYGONUM	CONVOLVULUS	WILD BUCKWHEAT	BUCKWHEAT	PNEUMATIC VIBRATORY		POOR POOR		-		PROMISE FOR THIS SEPARATION.
							FRICTION	FIBRE-TRAN BELT, PILE AND FIBRE-TRAN BAR	FAIR				
						REMOVE WILD	PRICIION	DRA	PAIK			THIS WAS A 3000 LB LOT WITH	THE #9 TRIANGULAR SCREEN REMOVED ALL
1115 RAPHANUS	SATIVUS	RADISH	POLYGONUM	CONVOVULUS	WILD BUCKWHEAT	BUCKWHEAT FROM RADISH	SCREEN	#8 TRIANGLE	GOOD	9	9 9	APPROX 1% WILD BUCKWHEAT. 9 REQUIRED PURITY WAS 100%	WILD BUCKWHEAT ALTHOUGH 42% OF THE CROP WAS LOST.
			POLYGONUM	CONVOVULUS	WILD BUCKWHEAT		SCREEN	#9 TRIANGLE	GOOD		0 10	0	
1116 RAPHANUS	SATIVUS	RADISH	WILD BUCKWHEAT	CONVOVULUS	WILD BUCKWHEAT	REMOVE WILD BUCKWHEAT	SCREEN	11/64 TRIANGLE	GOOD	99 10	0 10	THIS WAS DICON RADISH FOR SPROUTING AND WAS LARGER THAN 0 MOST RADISH THAT WE HAD SEEN.	USE 11/64 WOVEN WIRE SCREEN TO REMOVE WILD BUCKWHEAT FROM DICON RADISH

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848 RAPHANUS	SATIVUS	RADISH	RAPHANUS	SATIVUS	RADISH	REMOVE OUT-OF-HULL RADISH SEED WITH COLOR SORTER.	COLOR SORTER	FILTER: 61,LIGHT SENS: 70, DELAY: 30, SLIT: .09"	GOOD	97	97 1	00	SORTING RADISH SEED FOR LIGHT SEEDS WITHOUT SEED COATS CAN BE ACCOMPLISHED.
010 1011 111100	BIIIIVOS	idib10ii	idii immoo	DITTYOU	NID TON	COLOR GORTER.	COLOR DORTLA	52211 103	0002			BOUNCE PLATE, SCREENS AND	
637 RAPHANUS	SATIVUS	RADISH	SCLEROTIA		SCLEROTIA	SCLEROTIA	MAGNETIC		GOOD		70	PNEUMATIC SEPARATOR WERE INEFFECTIVE.	THE FRICTION SEPARATORS WERE THE MOST EFFECTIVE AT REMOVING THE SCLEROTIA.
							VELVET ROLL FRICTION	1 FOOT BELT	FAIR		60 80		
													ATTEMPTS WERE UNSUCCESSFUL. THE BEST SEPARATION REMOVED 95% OF THE
653 RAPHANUS	SATIVUS	RADISH	SCLEROTIA		SCLEROTIA	SCLEROTIA	FRICTION	3 FOOT BELT	GOOD		92		SCLEROTIA WITH 33% CROP LOSS. BEST RESULTS OBTAINED WITH #6 ROUND- HOLE SCREEN WHICH REMOVED 80% OF SCLEROTIA WITH 33% CROP LOSS.
668 RAPHANUS	SATIVUS	RADISH	SCLEROTIA		SCLEROTIA	REMOVE SCLEROTIA	SCREEN	#6 ROUND-HOLE			80		VIBRATOR AND PNEUMATIC SEPARATORS WERE INEFFECTIVE.
669 RAPHANUS	SATIVUS	RADISH	SCLEROTIA		SCLEROTIA	REMOVE SCLEROTIA	FRICTION	1 FT BELT			96		SAMPLE WAS RUN FOUR TIMES THROUGH FRICTION SEPARATOR.
		DAIKON				WHAT SIZE INDENTS TO CLEAN SCLEROTIA FROM	INDENT					PROCESSOR PLANS TO RUN TWO INDENTS WITH THE 4MM TO LIFT ALL THE CROP AND THE 3.25MM TO PULL SOME SHORT CONTAMINANTS OUT OF THE CROP.	INDENT CYLINDER CAN BE USED TO REMOVE LONG AND SHORT SCLEROTIA FROM RADISH BUT THE MATERIAL WILL STILL HAVE TO BE RUN THROUGH THE COLOR SORTER
1148 RAPHANUS	SATIVUS	RADISH	SCLEROTINIA	SP	SCLEROTIA	DAIKON	CYLINDER INDENT	4.OMM	FAIR	!	50	OTHER CONT	BEFORE FINAL PURITY IS MET.
			SCLEROTINIA	SP	SCLEROTIA		CYLINDER	3.25MM	FAIR	:	25		
			SCLEROTINIA	SP	SCLEROTIA		SPIRAL		GOOD	!	90		
			SCLEROTINIA	SP	SCLEROTIA		VIBRATORY		GOOD		87		
								2 PASSES, CARPET BELT, SCOTCH-BRIGHT				SAMPLE WAS HIGHLY POLISHED FROM MANY PREVIOUS MILLING OPERATIONS, SO THE FRICTION SEPARATOR WAS NOT AS	BECAUSE THE SEED WAS POLISHED FROM PREVIOUS MILLING OPERATIONS, RESULTS WERE MARGINAL IN TERMS OF MEETING THE SPECIFICATIONS. THE COLOR SEPARATOR CAN BE USED AND WILL MEET THE REQUIRED PURITY, BUT WITH LOWER
846 RAPHANUS	SATIVUS	RADISH			SCLEROTIA	REMOVE SCLEROTIA DETERMINE THE	FRICTION	BAR	FAIR	99	98	99 EFFECTIVE AS EXPECTED.	CAPACITY AND HIGHER MACHINE COST.
						SPECTURM DIFFERENCE BETWEEN NORMAL RADISH							
967 RAPHANUS	SATIVUS	BLACK-EYED SUSAN		SATIVUS	RADISH, DECORTICATED		COLOR SORTER	NO. 61 WRATTEN FILTER	FAIR	99	99	99	LARGEST DIFFERENCES WERE BETWEEN 550 AND 800 NM.
						HELP SET UP CONDITIONING PLANT FOR RADISH AND OTHER							
1252 RAPHANUS	SATIVUS	RADISH RED				VEGETABLE SEEDS	VIBRATORY		FAIR	99 (68 1	00	USE 6X20 SCREEN. USE 2.5 MM INDENT
1019 RATIBIDA	COLUMNARIS	CONEFLOWER	CUSCUTA		DODDER		VIBRATORY INDENT	SANDPAPER	GOOD		95	277 LBS. WITH 40 DODDER/LB.	CYLINDER. USE VIBRATORY.
			CUSCUTA		DODDER		CYLINDER	2.5MM	GOOD		95		
			CUSCUTA		DODDER	REMOVE INERT	SCREEN	6X20	GOOD		90		
1030 RATIBIDA	COLUMNARIUS	CONEFLOWER	INERT		INERT INERT	MATERIAL	PNEUMATIC VIBRATORY		FAIR FAIR			FORMERLY UNDER SAMPLE #736.	
			INDICI		INDICI	THRESH AND SEPARATE;	VIBRATORI		FAIR				
1185 RATIBIDA	COLUMNIFERA	PRAIRIE CONEFLOWER	INERT		INERT	TEST LAH HULLER SCARIFIER	SCARIFIER	LAH W/#7 MANTLE	GOOD			м	
			INERT		INERT		SCARIFIER	LAH W/#10 MANTLE SEO ABOVE PLUS 6-1/2	GOOD				
			TATEDE		TMEDE		SCREENS	RH TOP AND 6X26 WW	goon				
			INERT		INERT		INDENT	BOTTOM	GOOD		+		
			INERT		INERT		CYLINDER	SEQ 3.75 MM POCKET SEQ KAMAS W SMALL	GOOD		+		
		TALL PRAIRIE	INERT		INERT		GRAVITY	DECK	GOOD		+		
1064 RATIBIDA	PINNATA	CONEFLOWER											
1170 RUDBECKIA	HIRTA	BLACK-EYED SUSAN		RADICATA	SPOTTED CATSEAR	REMOVE MISC. WEEDS INCLUDING SPOTTED CATSEAR (FALSE DANDELION) AND MULLEN	SCREENS	SEQ 6X36	FAIR			THIS SAMPLE REPRESENTED A	USE 6X36 WW, PNEUMATIC (SDB @15) AND 1.5MM AND 2.1MM INDENT CVLINDER TO LOWER THE AMOUNT OF WEED SEED, INCLUDING SPOTTED CATSEAR AND MULLEN, IN BLACK-EYED SUSAN SEED.
			VERBASCUM				PNEUMATIC INDENT	SEQ SDB @ 15	FAIR				
			AMARANTHUS		PIGWEED	REMOVE SHEEP SORREL,	CYLINDER	SEQ 1.5MM AND 2.1MM	FAIR		+		56 G OF BLACK-EYED SUSAN WAS REMOVED
947 RUDBECKIA	HIRTA	BLACK-EYED SUSAN	RUMEX	ACETOSELLA	SHEEP SORREL	OXEYE DAISY AND WALL BEDSTRAW.	SCREENS	6X32 OVER 6X40	GOOD				FROM AN ORIGINAL SAMPLE OF 68G. FINAL PURITY NOT KNOWN.
			CHRIPONTHEMU										
			M GALIUM	LEUCANTHEMUM PARISIENSE	OXEYE DAISY WALL BEDSTRAW								
						REMOVE FUZZ. SEED IN OR OUT OF HULL IS		SEQ.FILAMENT, 50G,					SEED WAS SALVAGED FROM THE 6X26 WIRE SCREEN (SEED IN HULL) AND FROM THE .038 "ROUND-HOLE (SEED OUT OF HULL). THERE WAS VERY LITTLE MECHANICAL
923 SACCHARUM	OFFICINARUM	SUGARCANE	FUZZ		FUZZ	OK.	SCARIFIER	20MIN SEQ.#5 1/2 RD OVER 6X26 WIRE OVER .038					DAMAGE TO THE SEED.
			FUZZ		FUZZ		SCREENS	RD			_		
			FUZZ		FUZZ		PNEUMATIC	SEQ.FRACTION OVER 6X26					

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI	IP	CR FP	NOTES	CONCLUSION
				FUZZ		FUZZ		PNEUMATIC	SEQ.FRACTION OVER					
							REMOVE FUZZ FROM							FRACTIONS WERE SENT TO SUBMITTER FOR
928 8	SACCHARUM	OFFICINARUM	SUGARCANE	FUZZ		FUZZ	SEED AND CLEAN	SCARIFIER	SEQ.FILAMENT SEQ.5 1/2 RD OVER					GERMINATION TESTS.
				FUZZ		FUZZ		SCREENS	6X26 OVER .038 RD					
				FUZZ		FUZZ		PNEUMATIC	SEQ.					THE FILAMENT THRESHER AND AIR
							THRESH TO REMOVE							PRESSURE SCARIFIER DID VERY WELL AT
1082 5	SACCHARUM	OFFICINARUM	SUGARCANE	INERT		INERT	FUZZ AND DEHULL SEED, THEN CLEAN.	SCARIFIER	SEQ.1.2 MIN, .011" FILAMENT	GOOD				THRESHING THE SEED, WITH THE AIR PRESSURE SCARIFIE
				INERT		INERT		SCREENS	SEQ.1.#5 1/2 OVER 6X26 W OVER .038 RD	GOOD				
									SEQ.2.AIR PRESS,					
				INERT		INERT		SCARIFIER	50PSI, 25 SEC SEQ.2.#5 1/2 OVER	GOOD				
				INERT		INERT		SCREENS	6X26W OVER .038 RD	GOOD				
				INERT		INERT		SCARIFIER	SEQ.3.BRUSH MACH, #26 MANTLE, 15 SEC.	FAIR				
									SEQ.3.#5 1/2 OVER					
				INERT		INERT	REMOVE WILD OATS,	SCREENS	6X26W OVER .038 RD	GOOD				USED TOGETHER, THE 6-V INDENT DISC
25.0							VETCH, GRASS SEED							AND THE VIBRATOR SALVAGED 94% OF THE
356 2	SANGUISORBA		BURNET	AVENA VICIA	FATUA	WILD OATS VETCH	AND INERT MATERIAL.	INDENT DISC VIBRATORY	SEQ.SIZE 6-V DISC SEQ.SANDPAPER DECK	GOOD				LOT WITH ONLY .6% IMPURITIES.
				GRASS INERT		GRASS INERT		VIBRATORY VIBRATORY	SEQ. SANDPAPER DECK	GOOD				
				INERI		INERI		VIBRATORI	SEQ.SANDPAPER DECK	GOOD				THE VIBRATOR CONCENTRATED THE INERT
AVEN							REMOVE STEMS AND		REJECT FRACT RERUN					MATERIAL IN 5% OF THE ORIGINAL LOT. THE CLEAN FRACTION HAD ONLY A TRACE
	CABIOSA		SCABIOSA	INERT		INERT	LEAVES	VIBRATORY	TWICE	GOOD				OF STEMS.
														THE VIBRATOR FOLLOWED BY SCREENING AND BLOWING REMOVED MOST OF THE
														STEMS, LEAVES AND EMPTY SEEDS. BRIEF
							REMOVE STEMS AND LEAVES. THIS WAS		SEQ.FINE TEXTURED					TRIALS INDICATED THAT MOST OF THE REMAINING LONG STEMS AND LEAVES COULD
305	CABIOSA		SCABIOSA	INERT		INERT	FIELD RUN MATERIAL.	VIBRATORY	DECK	GOOD				BE REMOVED BY AN INDENT DISC.
									SEQ.5- 1/2X3/4,DOWNHILL					
				STEMS		STEMS		SCREEN	FRACT	GOOD				
				TRASH		TRASH		PNEUMATIC	SEQ.UPHILL FRACT FROM VIB.	GOOD				
				LONG STEMS		LONG STEMS		INDENT DISC	SEQ.	GOOD			WITH THIS SEQUENCE 20 GRAMS	
													OF PURE SEED WERE RETURNED	
									SEQ 24/64 RH TOP,				FROM 500 GRAMS OF ORIGINAL MATERIAL WITH VERY LITTLE	
1224 8	CABIOSIA		SCABIOSIA	SCABIOSIA		FIELD RUN SCABIOSIA	GENERAL CONDITIONING	SCREEN	4X20 WW BOTTOM	GOOD			LOSS	
				SCABIOSIA		FIELD RUN SCABIOSIA		SCARIFIER	SEQ LAH W/#7 WW MANTLE	GOOD				
									SEQ 6/64 RH TOP, 4X20 WW BOTTOM WITH					
				SCABIOSIA		FIELD RUN SCABIOSIA		AIR-SCREEN	HIGH AIR SPEED					
1213 8	SCABIOSIS	ARVENSIS	SCABIOSIA				REMOVE INERT (CLEAN)							ONLY THE 6X20 OVER THE 6X26 SCREEN
														AND THE 1/22 OVER THE 1/25 SHOWED ANY
			BUTTERFLY											PROMISE. BOTH SCREEN PAIRS REMOVED LARGE AND SMALL WEED SEEDS WITH CROP
457 8	SCHIZANTHUS		FLOWER	WEEDS		WEEDS	REMOVE WEEDS.	SCREENS	6X20 OVER 6X26	FAIR				LOSS.
				WEEDS WEEDS		WEEDS WEEDS		SCREENS VIBRATORY	1/22 OVER 1/25	FAIR		83		
				WEEDS WEEDS		WEEDS WEEDS		VELVET ROLL PNEUMATIC		POOR				
								INDENT						
				WEEDS		WEEDS		CYLINDER		POOR			THIS MATERIAL IS PART OF THE	
													WETLANDS	
			SMALL FRUITED				DETERMINE						RESTORATION/CONSTRUCTION RESEARCH PROGRAM BEING	
1217	SCIRPUS	MICROCARPUS	BULLRUSH				CONDTIONING SEQUENCE						CONDUCTED AT OSU.	THE DISTINATED CEDADATION DEDECTION OF THE
														THE PNEUMATIC SEPARATOR PERFORMED THE BEST, DROPPING 75% OF THE LOT FREE OF
251 8	SECALE	CEREALE	RYE	ERGOT ERGOT		ERGOT ERGOT	REMOVE ERGOT	PNEUMATIC ELECTROSTATIC		GOOD POOR		100 100		ERGOT.
				2.001		LIGO1		LIBETROSIATIC		FOOR				BEST RESULTS WERE WITH THE
													MANY MACHINES WERE TRIED INDIVIDUALLY, BUT RESULTS	ELECTROSTATIC SEPARATOR, WHICH REDUCED ERGOT TO 9/LB WITH 94% YIELD, AND THE
													WERE NOT AS GOOD AS THOSE OBTAINED IN THE PROCESSES	SCREENS/PNEUMATIC/ELECTROSTATIC/COLOR SEPARATOR SEQUENCE, WHICH REMOVED ALL
341 8	SECALE	CEREALE	RYE	ERGOT		ERGOT ERGOT	REMOVE ERGOT	ELECTROSTATIC	SEQ.#8-1/2 OVER 1/13	FAIR		71	ABOVE.	ERGOT WITH A YIELD OF 59%.
				ERGOT ERGOT		ERGOT		SCREENS PNEUMATIC	SEQ.	FAIR				
				ERGOT ERGOT		ERGOT ERGOT		ELECTROSTATIC COLOR SORTER	SEQ.	FAIR FAIR		100 100		
				2.001		LIGO1	FIND THE ROUND HOLE	COLOR SORIER	,	PAIK		200 100		
							SCREENS THAT SPAN THE SEED RANGE AND							
							DETERMINE RANGE IN							A #8 SCREEN DROPS EVERYTHING EXCEPT
	l						SEED DIMENSIONS FOR							AN OCCASIONAL SEED AND A 1/16 SCREEN

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R F	P NOTES	CONCLUSION
						REMOVE EMBRYO PIECES FROM ENDOSPERM PIECES USING						SAMPLE HAD BEEN THROUGH	THE ELECTROSTATIC SEPARATOR DID A
481 SECALE	CEREALE	RYE				ELECTROSTATIC SEPARATOR.	PI POTROSTATIO	15KV, ELECTRODE IN PINNING POSITION	GOOD			HAMMERMILL AND REDUCED TO SMALL PARTICLES.	VERY GOOD JOB OF CONCENTRATING THE EMBRYO PIECES.
101 0001100	CERCETIE	1012				DEFINATION.	DDDCTRODTHTTC	TIMING TODITION	0002			omining therefore.	EACH MACHINE REMOVED SOME INERT
						REMOVE INERT						AIR SEPARATION AND SCREENING	MATERIAL, BUT NOT ENOUGH FOR THE SEPARATION TO BE CONSIDERED
						MATERIAL						WERE NOT TRIED BECAUSE THE	SATISFACTORY. THE VIBRATOR DID
721 0000073	SEMPERVIRENS	DEDWOOD	INERT		INERT	("ROSEBUDS", NEEDLES	VIBRATORY		FAIR			SUBMITTER HAD ALREADY TRIED THESE.	REMOVE MOST OF THE "ROSEBUDS" WHICH
721 SEQUOIA	SEMPERVIRENS	REDWOOD	INERT		INERT	AND CONE PARTS).	FRICTION		FAIR			THESE.	WAS THE PRIMARY CONTAMINANT.
			INERT		INERT		GRAVITY		FAIR				
													INITIAL PURITY WAS 13% NORMALLY DEVELOPED SEEDS IN THE SAMPLE AND
						REMOVE LOW						THE SAMPLE WAS RUN TWICE OVER	FINAL PURITY WAS 26% NORMALLY
743 SEQUOIA	SEMPERVIRENS	REDWOOD	SEQUOIA	SEMPERVIRENS	REDWOOD	GERMINATION SEED REQUESTED	GRAVITY		GOOD			THE GRAVITY SEPARATOR.	DEVELOPED SEEDS.
						INFORMATION							
						CONCERNING CLEANING, DEHULLING AND							
						ROASTING OF SESAME						THE FAX NO LISTED IS IN	
1228 SESAMUM	INDICUM	SESAME				SEED. REMOVE INSECT						CARACUS, VENEZUALA	MOST SEPARATING MACHINES WERE TRIED,
606 SESAMUM		SESAME	INERT		INSECT DROPPINGS	EXCRETA							BUT ALL WERE UNSUCCESSFUL.
												THIS LOT WAS EXTREMELY TRASHY	
												AND CONTAINED VERY LITTLE SEED BY WEIGHT. THE LAH	
												SCARIFIER WITH #12 MANTLE	
												SUCCESSFULLY BROKE UP THE MATERIAL MAKING SEPARATION OF	
		BOTTLEBRUSH			BOTTLEBRUSH	THRESH AND REMOVE						THE SEED FROM THE CHAFF	
	HYSTRIX HYSTRIX	SQUIRRELTAIL	SITANION	HYSTRIX	SQUIRRELTAIL	AWNS	SCARIFIER	LAH #12 MANTLE	GOOD			POSSIBLE.	
1239 STIANTON	HIDIKIK												BEST RESULTS WERE WITH THE SPIRAL AND
													VIBRATOR WHICH SALVAGED 92.5% AND 92% OF THE CROP RESPECTIVELY AS CLEAN
301 SORGHUM	BICOLOR	SORGHUM	IPOMEA		MORNINGGLORY	REMOVE MORNINGGLORY.	VIBRATORY		GOOD				SEED.
			IPOMEA		MORNINGGLORY		SPIRAL		GOOD				
			IPOMEA IPOMEA		MORNINGGLORY MORNINGGLORY		DRAPER GRAVITY		FAIR POOR				
			IPOMEA		MORNINGGLORY		PNEUMATIC		POOR				
			IPOMEA IPOMEA		MORNINGGLORY MORNINGGLORY		ELECTROSTATIC VELVET ROLL		POOR POOR				
													EITHER THE (6-1/2X3/4)/DRAPER
													SEQUENCE OR THE PNEUMATIC/DRAPER SEQUENCE WILL EVIDENTLY REMOVE TRASH
						REMOVE BROKEN SEEDS		SEQ. 1.6-1/2X3/4					AND BROKEN SEEDS FROM THIS SORGHUM
293 SORGHUM	BICOLOR	SORGHUM	SORGHUM SORGHUM	BICOLOR BICOLOR	BROKEN SORGHUM SEEDS BROKEN SORGHUM SEEDS	AND TRASH.	SCREEN DRAPER	SLOT SEQ. 1.					SAMPLE.
			SORGHUM	BICOLOR	BROKEN SORGHUM SEEDS		PNEUMATIC	SEQ. 2.					
			SORGHUM	BICOLOR	BROKEN SORGHUM SEEDS	MEASURE SORGHUM TO	DRAPER	SEQ. 2.					
						DETERMINE SCREEN							RECOMMENDED SCREEN SIZES SENT TO
616 SORGHUM	BICOLOR	SORGHUM				SIZES.						UNSATISFACTORY RESULTS WERE	SUBMITTER.
												ACHIEVED WITH SCREENS,	THE VIBRATOR AND GRAVITY TABLE SHOW
						SALVAGE JOHNSONGRASS SEED FROM SORGHUM						VERTICAL AIR COLUMN, SPIRAL, VELVET ROLL, INCLINED CHUTE	SOME POSSIBILITIES, BUT ARE LOW CAPACITY. NO EFFECTIVE METHOD WAS
579 SORGHUM	HALEPENSE	JOHNSONGRASS	INERT		INERT	SCREENINGS.	VIBRATORY	SANDPAPER DECK	FAIR			AND BOUNCE PLATE SEPARATOR.	FOUND.
			INERT		INERT		GRAVITY	SANDPAPER DECK	POOR		_		NO RESULTS WERE SATISFACTORY. THE
													NO RESULTS WERE SATISFACTORY. THE VELVET ROLL DID THE BEST, REMOVING
291 SORGHUM	SUDANENSE	SUDANGRASS	TROMBA		MORNINGGLORY	DEMOVE MODIFICATION	VELVET ROLL	144RPM, 16 DEG,	DOCE				ALL THE CONTAMINANT, BUT ONLY RECOVERING 33% OF THE LOT.
291 SURGHUM	SUDANENSE	SUDANGRASS	IPOMEA IPOMEA		MORNINGGLORY	REMOVE MORNINGGLORY	SCREENS	LIGHT FEED	POOR POOR	10	00 10	00	RECOVERING 33% OF THE LOT.
			IPOMEA		MORNINGGLORY		VIBRATORY		POOR				
			IPOMEA IPOMEA		MORNINGGLORY MORNINGGLORY		PNEUMATIC DRAPER		POOR POOR				
			IPOMEA		MORNINGGLORY		GRAVITY		POOR				
													SCREENING AND PNEUMATIC SEPARATION SUCCESSFULLY CLEANED THE GLOBEMALLOW
						REMOVE MUSTARD AND							SEED TO A PURITY OF 90.7% WITH ABOUT
849 SPHAERALCEA	AMBIGUA	GLOBEMALLOW	BRASSICA		MUSTARD	MISC. WEED SEEDS.	SCREEN SCREEN	SEQ. 6X20 WOVEN WIRE SEQ. 1/17 ROUND HOLE			-		10% CROP LOSS.
							SCREEN	SEQ. 1/17 ROUND HOLE					
		-					PNEUMATIC	SEQ.	GOOD			91	BEST RESULTS WERE OBTAINED IN THE
													FRICTION SEPARATOR WITH 99% OF THE
													BEDSTRAW REMOVED AND A LOSS OF 11.5%.
671 SPINACIA	OLERACEA	SPINACH	GALIUM		BEDSTRAW	REMOVE BEDSTRAW AND SCLEROTIA	FRICTION	VINYL BELT, WEATHERSTRIP BAR	GOOD	,	9		THE FRICTION SEPARATOR WAS UNSUCCESSFUL REMOVING SCLEROTIA.
			GALIUM		BEDSTRAW		SCREEN	7 1/2 ROUND-HOLE	FAIR		32		
			GALIUM GALIUM		BEDSTRAW BEDSTRAW		VIBRATORY DRAPER		FAIR FAIR		95		
												THIS LOT WAS TO BE SHIPPED TO	
												JAPAN SO REQUIRED LOW SOIL LEVEL. LAH SCARIFIER BROKE	
												SOIL WITH VERY LITTLE	
												APPARENT DAMAGE TO THE CROP. NO PEAT WAS FOUND IN EITHER	USE LAH SCARIFIER TO REMOVE SOIL AND
1134 SPINACIA	OLERACEA	SPINACH	INERT		SOIL	REMOVE INERT	SCARIFIER	LAH W/#7 WW MANTLE	GOOD	1 1	90	THE INITIAL OR FINAL MATERIAL	

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM		OPERATING PARAMETERS	TY	IP CR	FP NOTES	CONCLUSION
			INERT		PEAT		SCARIFIER	LAH W/#7 WW MANTLE	GOOD		DDUCK DEDEADORD DID & COOP	
											BRUSH DEBEARDER DID A GOOD JOB OF BREAKING SOIL PARTICLES. NO PEAT WAS FOUN SO IT WAS NOT KNOWN WHETHER THE SCARIFIER WOULD BREAK THESE PARTICLES. THIS LOT WAS FOR SHIPMENT TO JAPAN AN THEREFORE NEEDED 0.03% OR	
1137 SPINACIA	OLERACEA	SPINACH	INERT		SOIL		SCARIFIER	LAH W/#7 WW MANTLE	GOOD		0.5 LESS SOIL.	PARTICLES IN SPINACH SEED.
			INERT		PEAT	REMOVE WHEAT, MUD	SCARIFIER	LAH W/#7 WW MANTLE			0	THE INDENT DISC AND CYLINDER WORKED
493 SPINACIA	OLERACEA	SPINACH	MISC		MISC	CLODS AND GRASS SEED.	SCREENS INDENT		POOR			VERY WELL. A #9 CYLINDER MIGHT WORK EVEN BETTER THAN THE #10.
			MISC		MISC		CYLINDER	#10 CYLINDER	GOOD			
			MISC		MISC		INDENT DISC	V-5 DISC	GOOD			THE VIBRATOR, SPIRAL, BOUNCE PLATE
								DECK=SMOOTH AL., SIDESLOPE=1, BACKSLOPE=9, FEED=6,				AND DRAPER SEPARATED THE MIXTURE WITH SIMILAR SELECTIVITIES. THE SPIRAL HAD THE GREATEST CAPACITY AND LOWEST
756 SPINACIA	OLERACEA	SPINACH	RAPHANUS	RAPHANISTRUM	WILD RADISH	REMOVE WILD RADISH	VIBRATORY	SPEED=23 TWO RUNS ON LARGE	GOOD	99 89	9 100	CROP LOSS.
			RAPHANUS	RAPHANISTRUM	WILD RADISH		SPIRAL	SEED FLIGHT	GOOD	99 73	3 100	
			RAPHANUS	RAPHANISTRUM	WILD RADISH		OTHER	BOUNCE PLATE SEPARATOR	GOOD	99 78	3 100	
							DRAPER	CHACH COMMINIONS	FAIR	99 93	3 100	
			RAPHANUS	RAPHANISTRUM	WILD RADISH		PNEUMATIC	6"X6" CONTINUOUS FLOW	FAIR	99 60	100	
								SEQ. 8 1/2 ROUND-				NO SEPARATION WAS ACHIEVED WITH ANY SEPARATOR EXCEPT THE SCREENS AND THEY COULD NOT PERFORM THE SEPARATION WITH THE REQUIRED MAXIMUM CROP LOSS OF
634 SPINACIA	OLERACEA	SPINACH	RAPHANUS	RAPHANISTRUM	WILD RADISH	SCLEROTIA	SCREEN	HOLE		100	100	10%.
			SCLEROTIA		SCLEROTIA	CONCENTRATE AS MANY	SCREEN	SEQ. #9 ROUND-HOLE	POOR	100	J	
		PINK				WORMS AS POSSIBLE IN A SMALL BULK OF COTTON TRASH (MAY VARY FROM LONG STEMMY MATERIAL TO SMALL STEMS, BROKEN						THE PNEUMATIC SEPARATOR GAVE VERY GOOD RESULTS WITH LONG STEMMY MATERIAL, WHILE THE ELECTROSTATIC SEPARATOR WORKED VERY WELL WITH THE SHORT MATERIAL. SEE ORIGINAL REPORT FOR EXTENSIVE DESCRIPTION OF THE
198 SQUIRMY		BOLLWORM	TRASH		TRASH	SEEDS, ETC.).	PNEUMATIC	LONG STEMMY MATERIAL		95	5	PROBLEM AND POSSIBLE SOLUTIONS.
			TRASH		TRASH		PNEUMATIC SCREEN	SHORT TRASH #6	POOR	35		
			TICADII		TRADII		DCKEEN	SHORT TRASH, 20KV,				
			TRASH		TRASH		ELECTROSTATIC	HOR=2,ROT=5.5,VER=10 .5,DIV=95DEG	GOOD	70		
836 STATICE	SINUATA	STATICE	INERT		INERT	SEPARATE SEED FROM FLOWER HEAD WITH BELT THRESHER AND CLEAN.		SEQ.0" CLEARANCE				THE UNLIFTED FRACTION IN THE BLOWER CONTAINED GOOD SEED, SOME BROKEN SEEDS AND SOME FLOWER PARTS. ALL FRACTIONS WERE SENT TO SUBMITTER FOR EVALUATION.
030 STATICE	DINOAIA	DIATICE	INERT		INERT	CDEAN.	SCREEN	SEQ.8 1/2 ROUND-HOLE				EVALUATION.
1111 (27) (27)		GERMAN	INERT	TATARICA	GERMAN STATICE SEED ON PLANT	THRESH SEED FROM PLANTS AND REMOVE FROM HOLLS	PNEUMATIC	SEQ LAH W/#5 MANTLE,	GOOD		THIS MATERIAL WAS HAND HARVESTED PLANTS STILL CONTAINING SEEDS. A SEQUEN. OF BRUSH DEBEARDING TWO TIME FIRST WITH #5 WW MANTLE THEN #5 WW MANTLE FOLLOWED BY SCREENING AND AIR RETURNED 6.4% OF THE MATERIAL BY	
1175 STATICE	TATARICA	STATICE	STATICE	TATARICA	GERMAN STATICE SEED	FROM HULLS	SCARIFIER	LAH W#14 MANTLE SEQ 16X16 TOP, 30X30			WEIGHT AS SEED.	
			STATICE	TATARICA	ON PLANT		AIR-SCREEN	BOTTOM, AIR	GOOD			THE THRESHER WAS NOT NEARLY SEVERE
573 STENOTAPHRUM	SECUNDATUM	ST. AUGUSTINE GRASS				THRESH AND CLEAN.	BELT THRESHER		POOR			THE INKESHEM WAS NOT NEARLY SEVERE ENOUGH TO THRESH THE "HAND-HARVESTED" SAMPLE. THE "PROCESSED SEED" WAS SEPARATED WITH GOOD RESULTS WITH THE BLOWER.
1266 STIPA	LEMMONII						PNEUMATIC		GOOD		R. G. GRIFFITHS' PHONE NO.:	
		TOWNESVILLE				DETERMINE BEST METHOD, SUITABLE FOR AFRICAN PEASANT COOPERATIVES AND ASSOCIATIONS, FOR THRESHING AND		SEQ1.4 PASSES, GOODYEAR "PEBBLE			61-32-15. ANY ATTEMPT TO INCREASE THE PERFORMANCE OF THE SCARIFIER RESULTED IN EXCESS ABRASION TO THE SEED BECAUSE OF THE LONGER PERIOD OF TIME THE SEED WAS HELD	ALTHOUGH IN 4 PASSES IT ONLY RELEASED
1129 STYLOSANTHES	HUMILIS	LUCERNE	HULLS HULLS	INERT INERT	HULLS HULLS	CLEANING SEED.	BELT THRESHER SCREEN	TOP", NO CLEARANCE SEQ1.14X14WW	FAIR		INSIDE THE SCARIFIER.	38% OF THE SEED. THE
			PARTICLES	INERT	PARTICLES		PNEUMATIC	SEQ1.	GOOD		95	
			HULLS HULLS	INERT INERT	HULLS HULLS		OTHER SCARIFIER	RUB-BOARD	GOOD POOR			
								BRUSH MACHINE,				
			HULLS	INERT	HULLS	REMOVE INERT MATERIAL, STEMS, AND SHRIVELED FLOWERS	OTHER	VARIOUS MANTLES	POOR			
627 TAGETES		MARIGOLD	INERT		INERT	STILL ATTACHED TO SEED.	BELT THRESHER	SEO.			GOOD RESULTS WERE OBTAINED WITH THE ABOVE SEQUENCE.	
			INERT		INERT			SEQ.				

NO CROP GENUS	CROP SPECIES CROP CON NAME	GE	MINANT CONTAMI	ES NAME	PROBLEM		OPERATING PARAMETERS	TY	IP CF	FP NOTES	CONCLUSION
		INERT		INERT		SCREEN	SEQ. 1/15 X 1/2	GOOD			THE ADOLE CHOURNES OF
					REMOVE STEMS,						THE ABOVE SEQUENCE OF SCREENS/THRESHER/SCREEN/PNEUMATIC/IND
					FLOWERS AND INERT		SEQ.1/18X3/4 SLOT				ENT CYLINDER YIELDED A FINAL PURITY
649 TAGETES	MARIGOLD	INERT		INERT	MATERIAL.	SCREENS BELT THRESHER	OVER 1/23 ROUND				OF 97% WITH A 15%LOSS.
						SCREEN	SEQ.1/23 ROUND-HOLE				
						PNEUMATIC	SEQ.				
						INDENT CYLINDER	SEQ.#16 CYLINDER	GOOD		97	
					WORK OUT PROCESSING	CYLINDER	SEQ. #16 CILINDER	GOOD		97	
					PLANS FOR BULK LOTS						
					OF THRESHED MARIGOLD. SAMPLE						
					CONTAINS STEMS,		SEQ.5/64X3/4 OVER				THE CONTAMINANT WAS VERY SIMILAR,
					PETALS, DIRT AND		1/20X1/2 OVER			THE ELECTROSTATIC SEPARATOR	PHYSICALLY, TO THE CROP IN THIS
712 TAGETES	MARIGOLD	INERT		INERT INERT	FLOWER HEADS.	SCREENS PNEUMATIC	1/24X1/2 OVER 30X30 SEQ. 130FPM			MADE NO SEPARATION.	SAMPLE. THE
		INERT		INERT		GRAVITY	SEQ.		50		
		INERT				VIBRATORY	SEQ.				
					REMOVE FLOWER RECEPTACLES, STICKS		SEQ.#12 OVER 4X18W				NO RESULTS FROM THE ABOVE CLEANING
906 TAGETES	MARIGOLD	INERT		INERT	AND PETALS.	AIR-SCREEN	OVER 4X30 W				SEQUENCE AVAIBLE.
						INDENT	ana cuu ar				
		INERT		INERT		CYLINDER INDENT	SEQ.6MM CYLINDER		_		
		INERT		INERT		CYLINDER	SEQ.12MM CYLINDER				
		INERT		INERT		GRAVITY	SEQ.				
											PRELIMINARY SEPARATING TRIALS WITH THE PNEUMATIC SEPARATOR REMOVED SOME
					REMOVE LOW						POOR SEED, BUT ONLY WITH THE LOSS OF
409 TAGETES	MARIGOLD	TAGETE	S	MARIGOLD	GERMINATION SEED.	PNEUMATIC		FAIR			SOME GOOD SEED ALSO.
					REMOVE TAILS FROM MARIGOLD SEEDS USING						
					FILAMENT THRESHER		2000 RPM, .013"				SAMPLES THRESHED FOR VARYING LENGTHS
801 TAGETES	MARIGOLD	TAGETE	S	MARIGOLD WITH TAILS		SCARIFIER	MUSIC WIRE				WERE SENT TO SUBMITTER.
					DETERMINE EFFECTIVENESS OF						
					BRUSH-TYPE						MOST EFFECTIVE WAS BATCH OPERATION
					HULLER/SCARIFIER ON						FOR ONE TO TWO MINUTES WITH A SMALLER
					VARIOUS SEED AND LEAF CROPS,						SCREEN SIZE. ABOUT 90% OF TAILS WERE REMOVED FROM THE MARIGOLD SEED.
946 TAGETES	MARIGOLD	TAGETE	is .		ESPECIALLY MARIGOLD.	SCARIFIER				OTHER SEEDS W	CONTINUOUS OPERATION WAS INEFFECTIVE.
											BECAUSE OF THE SEED SHAPE, THE BELT
											THRESHER WAS NOT EFFECTIVE EVEN AT ITS MOST AGGRESSIVE SETTINGS. A #12
											BRUSH MACHINE MANTLE WRAPPED WITH
											RUBBER FABRIC TO BLOCK OFF THE HOLES
					DETAIL MARIGOLD						DID FAIRLY WELL. A MANTLE WITH SMALLER OPENINGS MIGHT PERFORM
964 TAGETES	MARIGOLD	TAGETE	s	MARIGOLD WITH TAILS		BELT THRESHER		POOR			BETTER.
							BRUSH MACH. #12				
							MANTLE W/RUBBER BACKING				
1034 TAGETES	MARIGOLD	TAGETE		MARIGOLD WITH TAILS MARIGOLD WITH TAILS		SCARIFIER BELT THRESHER	BACKING	FAIR POOR		FORMERLY UNDER SAMPLE #736	
										TWO VARIETIES OF MARIGOLD TO	
1170 magnmng	MARIGOLD	ma oppme	10	MARTIGOT D. MIRHT WATE	DETAIL AND CLEAN	SCARIFIER	LAH			BE DETAILED AND CLEANED. ONE WITH LOT NO 3145	
1178 TAGETES	MARIGOLD	TAGETE	15	MARIGOLD WITH TAIL	DEBEARD MARIGOLD.	SCARIFIER	LAH			WITH LOT NO 3145	
					ALSO WORK ON OTHER						
					SPECIES INCLUDING						
					DAHLIA, ALYSSUM, GAILLARDIA, PANSY,						
1166 TAGETES	MARIGOLD				AND WILDFLOWER MIX.						
										THIS MATERIAL WAS RUN	
										CONTINUOUSLY. SEED WAS DISCHARGED THROUGH FRONT	USE LAH HULLER SCARIFIER WITH #10
										OPENING. RESULTING SEED WAS	SQUARE WIRE MANTLE. USE APPROX 4X26
TAGETESŸTAGE	MARIGOLD	ma one-		MARIGOLD WITH TAILS	DEMATI	SCARIFIER	LAH W/#10SQ W/RUBBER BACK	2005		SCREENED WITH 4X26WW SCREEN	WW SCREEN AND AIR COLUMN TO CLEAN
1095 TES	MARIGOLD	TAGETE	40	MAKIGOLD WITH TAILS	THE SEPARATION	SCARIFIER	DACA	GOOD		THEN SEPARATED IN AIR COLUMN	RESULTING SEED.
					NEEDED WAS NOT						
	GDVDWGMBD TC TS				EVIDENT, BUT THIN					THIS PROBLEM SAMPLE FORMERLY	THE FRICTION, VIBRATOR AND PNEUMATIC SEPARATORS EFFECTIVELY REMOVED THE
	CRYPTOMERIOID ES	THIN S	SEEDS	THIN SEEDS	SEEDS WERE SEPARATED OUT.					PART OF #675. SEE #675 AND #1056 FOR SIMILAR PROBLEMS.	SEPARATORS EFFECTIVELY REMOVED THE THIN SEEDS.
										and the property of the proper	THE PNEUMATIC SEPARATOR LIFTED THE
											SEED WITH SOME LOSS OF SEED, BUT THE
596 THUJA	PLICATA CEDAR	ED LEAF MATERI	IAL	LEAF MATERIAL	REMOVE LEAF MATERIAL	PNEUMATIC		GOOD			SUBMITTER WAS PLEASED WITH THE RESULTS.
	KENLAND	ED.									
159 TRIFLOIUM	PRATENSE CLOVER	RUMEX		DOCK	REMOVE DOCK	PNEUMATIC	0 220000 22	FAIR	98		BEST RESULTS WITH THE VELVET ROLLS.
		RUMEX		DOCK		VELVET ROLL	2 PASSES, 11 DEG, 260RPM	GOOD	98 6	5 100	
		RUMEX		DOCK		ELECTROSTATIC	200KFPI	POOR	98		
		RUMEX		DOCK		GRAVITY		POOR	98		
		RUMEX		DOCK		VIBRATORY		POOR	98	DISCUSSION CENTERED AROUND	
										METHODS TO REMOVE DODDER TO	
										BRING A VERY LARGE LOT OF REI	USE VELVET ROLL TO REMOVE DODDER FROM
978 TRIFOIUM	PRATENSE RED CLOV	R CUSCUT	rA .	DODDER	REMOVE DODDER	VELVET ROLL				CLOVER TO CERTI	RED CLOVER

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	. FP NOTES	CONCLUSION
1099 TRIFOLIUM	AMBIGUUM	KURA CLOVER	TRIFOLVIM	AMBIGUUM	UNSCARIFIED KURA	SCARIFY	SCARIFIER	ABRASIVE EXPERIMENTAL 30LB/HR, 15DEG, 500RPM	POOR	54	THIS MATERIAL WAS FOUND TO CONTAIN 54% GERMINABLE SEED AND 75 HARD SEED IN THE ORIGINAL. AFTER SCARIFICATION THE LOG CONTAINED 55% GERMINABLE SEEI AND 1% HARD. SUGGESTING THAT SCARIFICATION NEITHER HELPED NOR HARMED THE SEED 55 LOT.	
	AMDIGOOM	KOKA CHOVEK	TRIFOLIUM		CHOVER	REMOVE SEED FROM	DCARTFIER	LAH W/#7 SQ WIRE	FOOR	34	35 101.	
1152 TRIFOLIUM	AMBIGUUM	KURA CLOVER	TRIFOLIUM	AMBIGUUM	KURA CLOVER	HULL	SCARIFIER	MANTLE	GOOD			
1168 TRIFOLIUM	DUBIUM	HOP CLOVER	TRIFOLIUM	REPENS	WHITE CLOVER	REMOVE WHITE CLOVER	DRAPER	VINYL BELT, HIGH SPEED	FAIR		THIS MATERIAL REPRESENTS SEVERAL 1000 LE LOTS WITH VARYING LEVELS OF CONTAMINATION. OF GREATEST CONCERN WAS THE WHITE CLOVER AT 1 TO 2%. THE MACHINES TESTED REMOVED A PORTION OF THE WHITE CLOVER AND OTHER WEEDS INCLUDING BLUEGRASS, WILD CARROT	A SEQUENCE OF SCREEN
			TRIFOLIUM	REPENS	WHITE CLOVER		PNEUMATIC	SEQ SDB 33% OPENING SEQ 22X22 TOP 6X28	GOOD	99 100	0 100	
			TRIFOLIUM	REPENS	WHITE CLOVER		SCREENS	BOTTOM	GOOD	99 100	0 100	
56 TRIFOLIUM	HYBRIDUM	ALSIKE CLOVER	ANTHEMIS SPERGULA RUMEX	COTULA ARVENSIS ACETOSELLA	DOGFENNEL CORN SPURRY SHEEPSORREL	REMOVE CORN SPURRY, DOG FENNEL, SHEEP SORREL, ENGLISH CATCHFLY, FIELD MADDER AND INERT MATERIAL.	VELVET ROLL VIBRATORY PNEUMATIC	225 RPM, 12.5 DEG, 2 PASSES	GOOD FAIR FAIR		THE PNEUMATIC SEPARATOR REMOVED ALL ENGLISH CATCHFLY CORN SPURRY AND DOG FENNEL WITH 10% CROP LOSS. THE VIBRATOR HAS LIMITED POSSIBILITIES, BUT DID WELL 7 100 AT REMOVING DOG FENNEL.	BEST RESULTS OBTAINED WITH THE VELVET ROLLS. 85.5% OF ORIGINAL SAMPLE WAS RECLAIMED AT A PURITY OF 99.9%.
			SILENE	GALLICA	ENGLISH CATCHFLY		ELECTROSTATIC		POOR			
10 TRIFOLIUM	HYBRIDUM	ALSIKE CLOVER	RUMEX		SORREL	REMOVE SORREL	ELECTROSTATIC	18KV, HOR=8.25, VERT=6, ROT= 3/5	FAIR			THE ELECTROSTATIC SEPARATOR DID A FAIR JOB REMOVING 40% BY VOLUME WITH NO SORREL, 55% WITH SOME SORREL AND 5% WITH MANY SORREL. BEST RESULTS WERE HAD WITH THE
		CRIMSON		RAPA		REMOVE BIRD RAPE AND						VIBRATOR WHICH RECLAIMED 43% OF THE ORIGINAL SAMPLE AT 99% PURITY. THE ELECTROSTATIC SEPARATOR DID FAIRLY
67 TRIFOLIUM	INCARNATUM	CLOVER	BRASSICA	CAMPESTRIS	BIRD RAPE	WILD RADISH.	VIBRATORY	40X50 WIRE MESH DECK	FAIR	79 96	6 99	WELL RECLAIMING 40% AT 95% PURITY.
			BRASSICA	RAPA CAMPESTRIS RAPA	BIRD RAPE		ELECTROSTATIC	21KV, VERT-6, HOR- 7,ROT-3-3/8	FAIR	79 80	0 95	
			BRASSICA	CAMPESTRIS RAPA	BIRD RAPE		PNEUMATIC		POOR			
			BRASSICA	CAMPESTRIS	BIRD RAPE		SPIRAL		POOR			
425 TRIFOLIUM	INCARNATUM	CRIMSON CLOVER	BRASSICA	RAPA CAMPESTRIS	BIRD RAPE	REMOVE BIRD RAPE	SPIRAL		GOOD			THE SPIRAL, DRAPER, VIBRATOR AND MAGNETIC/DRAPER COMBINATION, ALL REMOVED MOST OF THE BIRD RAPE.
			BRASSICA	RAPA CAMPESTRIS	BIRD RAPE		DRAPER	PLASTIC BELT	GOOD			
			BRASSICA	RAPA CAMPESTRIS	BIRD RAPE		VIBRATORY	SANDPAPER DECK	GOOD			
			BRASSICA	RAPA CAMPESTRIS	BIRD RAPE		MAGNETIC	SEQ.	GOOD			
			BRASSICA	RAPA CAMPESTRIS	BIRD RAPE		DRAPER	SEQ.	GOOD			
				RAPA			INDENT					
		CRIMSON	BRASSICA	CAMPESTRIS	BIRD RAPE	REMOVE SEED FROM	CYLINDER	#5 CYLINDER	POOR			BOTH THRESHING MACHINES GAVE
933 TRIFOLIUM		CLOVER	BURR		BURR	BURR.	SCARIFIER	SEQ.1,FILAMENT	GOOD			ACCEPTABLE RE
			CHAFF		CHAFF		PNEUMATIC	SEQ.1	GOOD			
			BURR		BURR		BELT THRESHER		GOOD			
			CHAFF		CHAFF		PNEUMATIC	SEQ.2	GOOD			THE VELVET ROLLS DID THE BEST,
		CRIMSON				REMOVE WILD						PRODUCING A FINAL PRODUCT THAT LOOKED
400 TRIFOLIUM	INCARNATUM	CLOVER	GERANIUM		WILD GERANIUM	GERANIUM.	VELVET ROLL		GOOD			CLEAN ENOUGH FOR CERTIFICATION.
			GERANIUM GERANIUM		WILD GERANIUM WILD GERANIUM		MAGNETIC ELECTROSTATIC		FAIR POOR			
		-	GERANIUM		WILD GERANIUM		PNEUMATIC		POOR	 		+
108 TRIFOLIUM	INCARNATUM	CRIMSON CLOVER	LATHYRUS		VETCHLING	REMOVE VETCHLING	VIBRATORY	FINE SANDPAPER DECK 240 ROLL SPEED, 7		97 100		THE VIBRATOR AND THE VELVET ROLLS PERFORMED VERY WELL. ALTHOUGH THE VELVET ROLLS HAD SOMEWHAT HIGHER CROP LOSS, ADDITIONAL CLOVER COULD BE RECLAIMED BY RERUNNING THE REJECT FRACTION.
			LATHYRUS		VETCHLING		VELVET ROLL	DEG	GOOD	97 100	0 100	
			LATHYRUS		VETCHLING		MAGNETIC		POOR			
			LATHYRUS		VETCHLING		SPIRAL		POOR			
			LATHYRUS		VETCHLING VETCHLING		ELECTROSTATIC DRAPER	CANVAS BELT	POOR			
			LATHYRUS		VETCHLING		AIR-SCREEN	1/14 SCREEN	POOR			
		CRIMSON										NEARLY ALL VETCH WAS REMOVED FROM THE
43 TRIFOLIUM	INCARNATUM	CLOVER	VICIA		VETCH	REMOVE VETCH.	DRAPER	PLASTIC BELT	GOOD			CLOVER WITH THE DRAPER.

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R FP	NOTES	CONCLUSION
														A REASONABLY CLEAN CLOVER LOT COULD NOT BE OBTAINED. BEST RESULTS WERE A 40% RECOVERY WITH THE ELECTROSTATIC
147	TRIFOLIUM	INCARNATUM	CRIMSON CLOVER	VICIA	HIRSUTA	TINY VETCH	REMOVE TINY VETCH	ELECTROSTATIC		FAIR	54	95		WITH 5% VETCH AND AN 80% RECOVERY WITH SCREENS WITH 15% VETCH.
147	IKIPODIOM	INCARMATON	CHOVER	VICIA	HIRSUTA	TINY VETCH	REMOVE TINT VEICH	SCREEN	2X12		54	85		WITH SCREEKS WITH 130 VEICH.
				VICIA	HIRSUTA	TINY VETCH		SPIRAL		POOR				
				VICIA	HIRSUTA	TINY VETCH		DRAPER	CANVAS BELT	POOR				
				VICIA	HIRSUTA	TINY VETCH		PNEUMATIC		POOR				
				VICIA	HIRSUTA	TINY VETCH		INDENT DISC		POOR				
				VICIA	HIRSUTA	TINY VETCH		INDENT CYLINDER		POOR				
			CRIMSON	VICIA	SATIVA	TINI VEICH	REMOVE NARROWLEAF	CILINDER		FOOR				
401	TRIFOLIUM	INCARNATUM	CLOVER	VICIA	AUGUSTIFOLIA	NARROWLEAF VETCH	VETCH.	DRAPER		POOR				NO SUCCESS WITH THIS SAMPLE.
					SATIVA									
				VICIA	AUGUSTIFOLIA	NARROWLEAF VETCH		VIBRATORY		POOR				
					SATIVA									
				VICIA	AUGUSTIFOLIA	NARROWLEAF VETCH		SPIRAL		POOR				
				VICIA	SATIVA AUGUSTIFOLIA	NARROWLEAF VETCH		OTHER	BOUNCE PLATE	POOR				
				VICIA	AUGUSTIFULIA	NARROWLEAF VEICH		OTHER	BOUNCE PLATE	POUR				BEST RESULTS WITH THE INDENT CYLINDER
								INDENT						WHICH RECOVERED 86% OF THE CLOVER
100	TRIFOLIUM	PRATENSE	RED CLOVER	AMARANTHUS		PIGWEED	REMOVE PIGWEED	CYLINDER	16X26GA CYLINDER	GOOD	94			WITH 31 PIGWEED/LB.
				AMARANTHUS		PIGWEED		SCREENS	VARIOUS SIZES	POOR				
				AMARANTHUS		PIGWEED		VIBRATORY	FINE SANDPAPER	FAIR	94	92 100		
				AMARANTHUS		PIGWEED		PNEUMATIC		POOR				
				AMARANTHUS		PIGWEED		DRAPER		POOR				
				AMARANTHUS		PIGWEED		VELVET ROLL		POOR				
				AMARANTHUS		PIGWEED		ELECTROSTATIC		POOR			INFORMATION WAS DROWINGD	
1218	TRIFOLIUM	PRATENSE	RED CLOVER	AMARANTHUS		PIGWEED							INFORMATION WAS PROVIDED BASED ON PS #28 AND #100.	
											_			BOTH FRICTION AND MAGNETIC SEPARATORS
									VINYL SUEDE BELT,					WERE EFFECTIVE AT REMOVING THE
673	TRIFOLIUM	PRATENSE	WHITE CLOVER	ANTHEMIS	COTULA	DOGFENNEL	REMOVE DOGFENNEL	FRICTION	VINYL BAR	GOOD				DOGFENNEL.
				ANTHEMIS	COTULA	DOGFENNEL		MAGNETIC	#5 IRON POWDER	GOOD				
							REMOVE BUCKHORN, LADYSTHUMB, FLORETTES						THIS SAMPLE WAS SUBMITTED TO DETERMINE THE SHRINKAGE FROM A PROCESSING SEQUENCE SIMILAR	SHRINKAGE APPEARED TO BE GREATER THAN FOR THE SEQUENCE USED BY THE SUBMITTER. PURITY APPEARED TO BE ACCEPTABLE ALTHOUGH NO OFFICIAL ANALYSIS WAS MADE. FINE TUNING OF THIS SEQUENCE AND RERUNNING OF
1074	TRIFOLIUM	PRATENSE	RED CLOVER	FLORETTES		FLORETTES	AND INERT.	SCREEN	SEQ.#6 ROUND-HOLE				TO THAT USED BY T	CERTAIN FRACTIONS MIGHT REDUCE LOSS.
								SCREENS	SEQ.					
								GRAVITY	SEQ.14X14 WIRE OVER 20X20 WIRE					
								GRAVIII	SEQ.6X16 WIRE OVER					
								SCREENS	6X21 WIRE					
				INERT		INERT		VELVET ROLL	SEQ.					
				PLANTAGO	LANCEOLATA	BUCKHORN		DRAPER	SEQ.					
				POLYGONUM	PERSICARIA	LADYSTHUMB			SEQ.					
			DI ODIDA				REMOVE DIRT CLODS		GRO PNIDGI ODD 7					BEST RESULTS WERE OBTAINED WITH THE
690	TRIFOLIUM	PRATENSE	FLORIDA WHITE CLOVER	TMPDT		INERT	AND INSECT-DAMAGED MATERIAL	GRAVITY	SEQ. ENDSLOPE=7, AIR=3, BACKSLOPE=2	GOOD				GRAVITY SEPARATOR FOLLOWED BY THE FRICTION SEPARATOR.
090	TRIFOLIUM	PRATENSE	WHITE CLOVER	INEKI		INERI	MAIBRIAD	GRAVIII	SEQ.VINYL BAR, SUEDE					FRICTION SEPARATOR.
				INERT		INERT		FRICTION	BELT	GOOD				
				INERT		INERT		MAGNETIC		GOOD				
							REMOVE RYEGRASS,						WHILE USING THE CLIPPER, THE FEED HOPPER HAD TO BE HAND STIRRED TO PREVENT BRIDGING OF THE RYEGRASS. ALSO, THE	GOOD RESULTS WERE OBTAINED WITH THE AIR-SCREEN MACHINE. THE FRACTION THROUGH THE BOTTOM SCREEN WAS THEN
							WEED SEEDS AND INERT						SCREENS TENDED TO CLOG AND	PUT IN THE BLOWER TO REMOVE LIGHT
58	TRIFOLIUM	PRATENSE	RED CLOVER	LOLIUM		RYEGRASS	MATERIAL.	AIR-SCREEN	SEQ.1/13 OVER 1/18	GOOD			HAD TO BE SCRAPED CLEAN.	TRASH.
				INERT		INERT		PNEUMATIC	SEQ.	GOOD	67	90 97		
1	TRIFOLIUM	PRATENSE	DOLLARD RED	MELILOTUS		SWEETCLOVER	REMOVE SWEETCLOVER AND ALFALFA.	ELECTROSTATIC	20KV	FAIR	97	100		ALTHOUGH THE PURITY WAS IMPROVED, 99.5% DID NOT MEET REQUIRED PURITY, AND REPEATED RERUNS SHOWED NO FURTHER INCREASE IN REMOVAL OF THE CONTAMINANTS. NO SOLUTION IS APPARENT AT THIS TIME.
								SCREENS		POOR				
								PNEUMATIC		POOR				
							DEMOND ONLY CAN DATE	GRAVITY		POOR	_	_		
			DOLLARD RED				REMOVE CHALCID FLY INFESTED RED CLOVER, GRASS, PLANTAIN, LADYSTHUMB AND							THE ABOVE PROCEDURE YIELDED 68LBS (OUT OF AN ORIGINAL 89LBS) OF 99.96% PURE CROP WITH .04% OTHER SEED AND NO
20	TRIFOLIUM	PRATENSE	CLOVER	MISC		MISC	CHAFF.	SCREEN	SEQ.1/15 ROUND-HOLE	GOOD				INERT MATERIAL.
				итаа		MTGG		ATD GGETTE	SEQ.1/15 OVER 6X24	0005				
		-		MISC		MISC		AIR-SCREEN	WIRE SEQ.OVER 6X24	GOOD	-			
				MISC		MISC		PNEUMATIC	FRACTION	GOOD		100		
								INDOMNIC	I I I I I I I I I I I I I I I I I I I	3000	-+	100		BEST RESULTS WERE OBTAINED WITH
610	TRIENI TIM	PRATENSE	RED CLOVER	MISC		MISC	REMOVE WEEDS (DOCK, PIGWEED, LAMBSQUARTER, MALLOW, PRICKLY LETTUCE, ETC.).	PNEUMATIC	SEO. 630 FPM					PNEUMATIC SEPARATION FOLLOWED BY SCREENING WITH A FINAL PURITY OF 100% AND A LOSS OF 7%. A SPECIAL INDENT CYLINDER (1/16 X 22 GAGE) LOST ONLY 3% OF THE CROP, BUT WITH 270 WEED SEEDS PER LB LEFT.
910	TRIFOLIUM	PRAIBNSE	KED CHOVER	MISC		MISC	DEITOUE, ETC.).			GOOD	1	00 100		OBBDO PEK DB DEFI.
		1		MISC		MISC		SCREEN	SEQ. 6X22 WIRE MESH	GOOD	1	00 100		

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP	CR FP	NOTES	CONCLUSION
1045	TRIFOLIUM	PRATENSE	RED CLOVER	MISC.		MISC.	CLEAN SCREENINGS TO RETRIEVE RED CLOVER SEED.	AIR-SCREEN	.062 RD HOLE TOP SCREEN, 6X28 WOVEN- WIRE BOTTOM SCREEN	GOOD				THE AIR SCREEN SEPARATOR WORKED VERY WELL FOR REMOVING LARGE AND SMALL MATERIAL FROM THE SAMPLE TO CONCENTRATE THE CLOVER SEED TO 20% TO 30 % IN THE FINAL FRACTION AS DESIRED.
							REMOVE BUCKHORN AND							THE 1/23 SCREEN DROPPED THE TIMOTHY AND SMALL BUCKHORN, THEN THE .075*X.03" INDENT LIFTED THE CLOVER FROM THE REMAINING BUCKHORN. ACCORDING TO SEED MEASUREMENTS THE IDEAL INDENT SIZE WOULD BE
201	TRIFOLIUM	PRATENSE	RED CLOVER	PHLEUM	PRATENSE	TIMOTHY	TIMOTHY	SCREEN	SEQ.1/23 ROUND-HOLE SEQ.FRACT HELD BY SCREEN, .075"X.03"	GOOD				.078"X.03".
				PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN		CYLINDER	POCKET	GOOD		99		
							REMOVE BUCKHORN PLANTAIN, PIGWEED, BULL THISTLE, WILD CARROT, CURLY DOCK, SHEEP SORREL AND CHALCID FLY INFESTED		SEQ.FANNING MILL:					NO OVERALL EVALUATION OF TEST RESULTS
28	TRIFOLIUM	PRATENSE	RED CLOVER	PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN	CLOVER.	OTHER	BLOCKED OVER 6X22 SEQ.OVER 6X22					INDICATED.
				CIRSIUM AMARANTHUS	VULGARE	BULL THISTLE PIGWEED		PNEUMATIC INDENT CYLINDER	FRACTION SEQ.#4 CYL, UNLIFTED FRACTION	GOOD				
									UNLIFTED FRACT FROM					
				DAUCUS	CAROTA	WILD CARROT	REMOVE BUCKHORN	ELECTROSTATIC	PNEUM	GOOD				THE MAGNETIC SEPARATOR REMOVED ALL BUCKHORN PLANTAIN IN THE SAMPLE WITH
640	TRIFOLIUM	PRATENSE	RED CLOVER	PLANTAGO	LANCEOLATA	BUCKHORN PLANTAIN	PLANTAIN	FRICTION		POOR		100 100		8% CROP LOSS.
								MAGNETIC		GOOD	_	100 100		BEST RESULTS WITH THE VELVET ROLLS
			KENLAND RED				REDUCE CURLY DOCK FROM 144/LB TO 45/LB							WITH ALL DOCK REMOVED AND 10% LOSS. THE VIBRATOR AND GRAVITY MACHINE SHOULD ALSO BE ABLE TO MAKE THIS
354	TRIFOLIUM	PRATENSE	CLOVER	RUMEX	CRISPUS CRISPUS	CURLY DOCK CURLY DOCK	OR LESS.	VELVET ROLL SCREEN	150 RPM, 15 DEG. #5 TRIANGULAR	GOOD FAIR		100 100 100 100		SEPARATION.
				RUMEA	CRISPUS	CORLY DOCK		SCREEN	#5 TRIANGULAR 1/22X1/2 OVER	PAIR		100 100		THE BEST ALTERNATIVE IS SCREENING WITH A 1/22X1/2 SLOT OVER A 1/18 ROUND-HOLE SCREEN. 90% OF THE CLOVER WAS SAVED AND HALF THE DOCK WAS
361	TRIFOLIUM	PRATENSE	RED CLOVER	RUMEX	CRISPUS	CURLY DOCK	REMOVE CURLY DOCK	SCREENS	1/18"RH	FAIR		50		REMOVED.
				RUMEX RUMEX	CRISPUS CRISPUS	CURLY DOCK CURLY DOCK		VELVET ROLL OTHER	BOUNCE PLATE	POOR		61		
622	TRIFOLIUM	PRATENSE	RED CLOVER	RUMEX		DOCK	REMOVE DOCK	FRICTION	TYGON BAR, IMITATION LEATHER BELT	POOR				THE INCLINED DRAPER AND THE VELVET ROLLS GAVE SATISFACTORY RESULTS FOR THIS SEPARATION.
023	IRIFOLIUM	PRAILNOL	RED CLOVER	RUMEA		BOCK	REMOVE BOCK	VELVET ROLL	225 RPM, 8 DEG,CLEARANCE=2	GOOD				THIS SEPARATION.
								OTHER	INCLINED DRAPER, 55 RPM, RUBBER BELT, 23 DEG	GOOD		99		
							REMOVE SHEEPSORREL, FATHEN AND FIELD MADDER WITH FRICTION		8 PASSES, 25 DEG- VINYL BAR, SUEDE					
711	TRIFOLIUM	PRATENSE	WHITE CLOVER	RUMEX	ACETOSELLA	SHEEPSORREL	SEPARATOR	FRICTION	BELT,	FAIR		55		T
				CHENOPODIUM SHERARDIA	ALBUM ARVINSIS	FATHEN FIELD MADDER								
				DIEGO DE CONTROL DE CO	Incornation	TIBB TREBER							SUBMITTER HAD PREVIOUSLY USED	
1182	TRIFOLIUM	PRATENSE	RED CLOVER	RUMEX	SP	RUMEX	REMOVE SHEEP SORREL AND CURLY DOCK	VELVET ROLL	15 DEGREES SLOW ROTATION	GOOD	100	100	A NUMBER 6 INDENT TO REMOVE 90% OF THE RUMEX AFTER SCREENING.	THIS WAS FOR USE AS A PASTURE MIX SO HE NEEDED TO GET BELOW 1800/LB. VELVET ROLL PROBABLY ACHIEVED THIS.
							REMOVE ARROWLEAF		FELT BAR, NAUGAHYDE					FOUR PASSES OF THE SAMPLE ON THE FRICTION SEPARATOR YIELDED A 99.8% PURE PRODUCT. THE 28% CROP LOSS COULD BE REDUCED IF THE THROUGH FRACTION WAS RERUN ON THE FRICTION
810	TRIFOLIUM	PRATENSE	RED CLOVER	TRIFOLIUM	VESICULOSUM	ARROWLEAF CLOVER	CLOVER REMOVE BUCKHORN PLANTAIN, RYEGRASS GROATS, ALSIKE	FRICTION	BELT	GOOD	95	98 100		SEPARATOR. THE SAMPLE CONTAINED SO FEW SEEDS OF
641	TRIFOLIUM	PRATENSE	RED CLOVER	VARIOUS		VARIOUS	CLOVER, BULL THISTLE, DOCK ETC.	FRICTION		POOR				SOME OF THE CONTAMINANTS THAT SEPARATION RESULTS WERE NOT RELIABLE.
1161	TRIFOLIUM	PRATENSE	RED CLOVER				CLEAN FIELD RUN RED CLOVER							
			LADINO						MULTI-DECK				RULED OUT SCREEN OR LENGTH	WITH A MULTIPLE DECK VIBRATOR, 48% OF THE MIXTURE WAS RECLAIMED WITH A SMALL AMOUNT OF PIGWEED. RESULTS MIGHT BE IMPROVED WITH A SINGLE DECK VIBRATOR AND A DIFFERENT-TEXTURED
125	TRIFOLIUM	REPENS	CLOVER	AMARANTHUS AMARANTHUS	RETROFLEXUS RETROFLEXUS	REDROOT PIGWEED REDROOT PIGWEED	REMOVE PIGWEED	VIBRATORY PNEUMATIC	W/SANDPAPER DECK	GOOD POOR	75		SEPARATIONS.	DECK.
				AMARANTHUS	RETROFLEXUS	REDROOT PIGWEED		VELVET ROLL		POOR				
				AMARANTHUS AMARANTHUS	RETROFLEXUS RETROFLEXUS	REDROOT PIGWEED REDROOT PIGWEED		DRAPER ELECTROSTATIC		POOR POOR	-			

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FP	NOTES	CONCLUSION
		NEW ZEALAND											BEST RESULTS WERE WITH THE VIBRATOR WHICH YIELDED 82% OF THE LOT AT A PURITY OF 99.9%. THE GRAVITY TABLE (BLOCKED) YIELDED 94% AT A 99.7%
288 TRIFOLIUM	REPENS				PIGWEED	REMOVE PIGWEED	SCREEN	4X26 SLOT	FAIR		100		PURITY.
			AMARANTHUS		PIGWEED		VIBRATORY	SANDPAPER DECK	GOOD		100		
			AMARANTHUS		PIGWEED		GRAVITY	SANDPAPER DECK, NO AIR	GOOD		100		
									-			SCREENS, VELVET ROLLS,	THE PIGWEED, INSTEAD OF BEING SMOOTH
FOA MID THOU TUM	REPENS	LADINO	AMARANTHUS		PIGWEED	DEMOVE DIGHEED	VIBRATORY	COO ODIM DADED DEGN	FAIR			ELECTROSTATIC AND AIR COLUMN	AND SHINY LIKE NORMAL, WAS DULL AND GRAINY, LIKE THE
524 TRIFOLIUM	REPENS	CLOVER	AMARANIHUS		PIGWEED	REMOVE PIGWEED.	VIBRATURY	600 GRIT PAPER DECK 80, 180 AND 280 GRIT	FAIR			YIELDED POOR RESULTS.	GRAINI, LIKE THE
			AMARANTHUS		PIGWEED		VIBRATORY	DECKS	POOR				
		LADINO				REMOVE WEEDS: WITCH GRASS, SCARLET						THESE WERE TWO BREEDER LOTS	USE SCREENS, GRAVITY AND INDENT CYLINDER TO REMOVE WITCH WEED AND
1164 TRIFOLIUM	REPENS	CLOVER	ANAGALLIS	ARVENSIS	SCARLET PIMPERNEL	PIMPERNEL AND OTHERS	SCREEN	6X22 WW	GOOD			OF LADINO CLOVER.	SCARLET PIMPERNEL FROM LADINO CLOVER.
								SEQ. WITH INDENT					
			PANICUM	CAPILLARE	WITCHGRASS		GRAVITY INDENT	CYLINDER SEQ WITH SCREEN 1.35	GOOD				
			PANICUM	CAPILLARE	WITCHGRASS		CYLINDER	MM	GOOD				
													THE VIBRATOR REMOVED 100% OF THE DODDER. THE VIBRATOR AND THE VELVET
						REMOVE DODDER AND							ROLLS REMOVED 66% OF THE LAMBSQUARTER
						REDUCE LAMBSQUARTER		SEQ.30-DECK, 3					AND 90% OF THE PIGWEED. LOSS WAS
318 TRIFOLIUM	REPENS	WHITE CLOVER	CUSCUTA		DODDER	AND PIGWEED.	VIBRATORY	PASSES SEQ.30-DECK, 3	GOOD				21%.
			AMARANTHUS		PIGWEED		VIBRATORY	PASSES	GOOD				
			CHENOPODIUM	ALBUM	LAMBSQUARTER		VELVET ROLL	SEQ.	FAIR				BEST RESULTS WITH THE DRAPER, 26X26
													SCREEN, AND VIBRATOR SEPARATOR. ALL
						REMOVE HULLED							YIELDED 100% PURE SAMPLES WITH CROP
114 TRIFOLIUM	REPENS	WHITE CLOVER	CYNODON	DACTYLON	BERMUDA GRASS BERMUDA GRASS	BERMUDA GRASS.	VIBRATORY SCREEN	FINE SANDPAPER 26X26 W/DAMS	GOOD	98 100 98 100			LOSSES OF LESS THAN 4% IN ALL CASES.
			CYNODON	DACTYLON	BERMUDA GRASS		PNEUMATIC	ZORZO W/ DIEIO	FAIR	98	200		
			CYNODON	DACTYLON	BERMUDA GRASS		ELECTROSTATIC	14KV	FAIR	98	100		
			CYNODON	DACTYLON	BERMUDA GRASS		DRAPER	PLASTIC BELT	GOOD	98 100	J 100		THE VIBRATOR DID THE BEST, YIELDING
						REMOVE WILD TURNIP(428/LB) AND DOGMUSTARD(214/LB).						IN ALL TRIALS ABOVE, BOTH	93% OF THE ORIGINAL MATERIAL WITH 108WEED SEEDS/LB. THE ELECTROSTATIC SEPARATOR AND 1/25 ROUND HOLE SCREEN
314 TRIFOLIUM	REPENS	DUTCH WHITE CLOVER	ERUCASTRUM	GALLICUM	DOGMUSTARD	642/LB TOTAL WEED COUNT.	VIBRATORY	SANDPAPER DECK	GOOD	83		WEEDS ARE CONSIDERED TOGETHER IN THE RESULTS.	YIELDED 84% WITH 218/LB AND 96% WITH 283/LB RESPECTIVELY.
314 IRIFOLIUM	REPENS	CLOVER	BRASSICA	GALLICOM	WILD TURNIP	COUNT.	SCREEN	25-Jan	FAIR	56		IN THE RESULTS.	2037LB RESPECTIVELT.
							ELECTROSTATIC		FAIR	66	5		
							SPIRAL PNEUMATIC		POOR				
							DRAPER		POOR				
						REMOVE INERT		SEQ.SQUEEZE ROLLS:				THIS PROBLEM SAMPLE FORMERLY	
1044 TRIFOLIUM	REPENS	WHITE CLOVER	INERT		INERT	MATERIAL: SOIL PARTICLES	OTHER	ONE HARDWOOD AND ONE SOFT RUBBER				#0796B. RELATED SAMPLE IS #796 (FORMERLY #796A).	SOIL PARTICLES MAY BE PARTIALL
			INERT		INERT		SCREEN	SEQ27 ROUND HOLE	GOOD	95 96	5 100		
			INERT		INERT		MACHIBUTO	FERROMAGNETIC LIQUID SOLN, 2 PASSES	GOOD	95 94	1 100		
			INERT		INERT		MAGNETIC VELVET ROLL	SOLN, 2 PASSES	FAIR	95 90			
													THERE IS NO SOLUTION TO THIS PROBLEM
		LADINO				REMOVE BIG TREFOIL, BIRDSFOOT TREFOIL							AT THIS TIME. ONLY SMALL IMPROVEMENTS IN PURITY WERE OBSERVED
27 TRIFOLIUM	REPENS	CLOVER	LOTUS	ULIGINOSUS	BIG TREFOIL	AND PIGWEED.	GRAVITY		POOR				WITH LOSS OF CROP.
			LOTUS	CORNICULATUS	BIRDSFOOT TREFOIL		PNEUMATIC INDENT DISC		POOR				
							ELECTROSTATIC		POOR				
							INDENT						
							CYLINDER VELVET ROLL		POOR				
			AMARANTHUS		PIGWEED		SCREENS		POOR				
						REMOVE GERANIUM AND						A 1/23 ROUND-HOLE SCREEN DROPPED MUCH WEED WITH 10% OF THE CROP. THE ELECTROSTATIC SEPARATOR AND INDENT CYLINDER	THE VIBRATOR RECOVERED 60% OF THE CLOVER WITH ONLY A SMALL AMOUNT OF
332 TRIFOLIUM	REPENS	WHITE CLOVER	LYCHNIS	ALBA	COCKLE	COCKLE.	VIBRATORY	SANDPAPER DECK	FAIR			WERE UNSUCCESSFUL.	GERANIUM AND COCKLE.
			PELARGONIUM		GERANIUM		VIBRATORY	SANDPAPER DECK	FAIR				
													A 1/17x26 ga indent cylinder produces
							INDENT						almost ideal results: all contaminant removed with .5% crop
264 TRIFOLIUM	REPENS	WHITE CLOVER		CANARIENSIS	CANARYGRASS	REMOVE CANARYGRASS	CYLINDER	1/17X26 GA CYLINDER		100	100		loss.
			PHALARIS	CANARIENSIS	CANARYGRASS		VIBRATORY		FAIR				A CANCAL CORPORATE PROPERTY AND
69 TRIFOLIUM	REPENS	WHITE CLOVER	RUMEX		SORREL	REMOVE SORREL AND WHITE-TIP CLOVER.	VIBRATORY	FINE TEXTURED DECK		100			A 24X24 SCREEN DROPPED MOST OF THE WHITETIP CLOVER WHILE RETAINING 98.75 OF THE LOT. THE VIERATOR, WITH FINE TEXTURED DECK, RECLAIMED 96% OF THE LOT FREE OF RUMEX. WITH A FINE SAND-PAPER DECK, 70% WAS RECLAIMED WITH 75% OF THE CLOVER REMOVED.
			RUMEX		SORREL		VELVET ROLL		POOR				
			TRIFOLIUM	VARIEGATUM	WHITETIP CLOVER		SCREEN	24X24	FAIR		+		THE DISTINATIO CEDADAMOD MADE MUST SECT
													THE PNEUMATIC SEPARATOR MADE THE BEST SEPARATION RECLAIMING ABOUT 60% OF
160 TRIFOLIUM	REPENS	WHITE CLOVER			SHEEP SORREL	REMOVE SHEEP SORREL	PNEUMATIC		FAIR	85 100	100		THE LOT WITH LOW SORREL CONTENT.
			RUMEX	ACETOSELLA ACETOSELLA	SHEEP SORREL SHEEP SORREL		ELECTROSTATIC VIBRATORY		POOR		+		
	1	1	ROPIEA	THE POSTULE	OTTOR DOLLKED	I	TUNNATURI	1	FOOR				1

NO CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP CR	FP	NOTES	CONCLUSION
													THE PNEUMATIC SEPARATOR DID THE BEST, RECLAIMING 46% OF THE LOT WITH 420
168 TRIFOLIUM	REPENS	WHITE CLOVER	RUMEX RUMEX	ACETOSELLA ACETOSELLA	SHEEP SORREL SHEEP SORREL	REMOVE SHEEP SORREL	PNEUMATIC MAGNETIC		FAIR	89	+		SORREL/LB.
			KONEX	ACETOSEBBA	DHEEF DORKED		MAGNETIC	20KV,HOR=1-	FOOR				
								1/2,VER=11-					
			RUMEX	ACETOSELLA	SHEEP SORREL		ELECTROSTATIC	1/4,ROT=2.7	POOR				
			RUMEX	ACETOSELLA ACETOSELLA	SHEEP SORREL SHEEP SORREL		OTHER VIBRATORY	CATAPULT VARIOUS DECKS	POOR				
			RUMEA	ACETOSELLA	SHEEF SURREL		VIBRATORI	VARIOUS DECKS	POOR				
200 TRIFOLIUM	REPENS	WHITE CLOVER	DIIMEY	ACETOSELLA	SHEEPSORREL	REMOVE SHEEP SORREL	SCREEN	SEQ.6X24 WIRE MESH,					BY FAR THE BEST SEPARATION WAS OBTAINED BY PUTTING THE DROPPED FRACTION FROM THE 6X24 WIRE MESH SCREEN THROUGH THE PNEUMATIC SEPARATOR. 50% OF THE ORIGINAL LOT WAS RECLAIMED WITH A PURITY OF 133 SORREL/LB.
ZOU IRIFOLIUM	KEPEND	WIIIIE CHOVER	RUMEX	ACETOSELLA	SHEEPSORREL	REMOVE SHEEF SORRED	PNEUMATIC	SEQ.	GOOD				SORRED/ IB.
			RUMEX	ACETOSELLA	SHEEPSORREL		SCREENS	-	POOR				
			RUMEX	ACETOSELLA	SHEEPSORREL		ELECTROSTATIC		POOR				
			RUMEX	ACETOSELLA	SHEEPSORREL		VELVET ROLL		POOR				
			RUMEX	ACETOSELLA	SHEEPSORREL		GRAVITY		POOR			THE 6X25 HELD MANY SORREL IN	
323 TRIFOLIUM	REPENS	WHITE CLOVER		ACETOSELLA	SHEEPSORREL	REMOVE SHEEPSORREL	SCREENS	SEQ.6X25 OVER .038*				HHE 0A25 HELD MANY SURREL IN HULL AND SKINNED. THE 0.38* DROPPED MANY SKINNED SORREL. THE MAGNETIC SEPARATOR REMOVED STEMS, SKINNED SEEDS, SMALL SORREL AND BROKEN CLOVER.	YIELDS WERE NOT DETERMINED, BUT WERE IMPRESSIVE.
			RUMEX	ACETOSELLA	SHEEPSORREL		MAGNETIC	SEQ.OIL AND WATER	GOOD				. 4000 UTDE MESH CORPER VOLES THE
376 TRIFOLIUM	REPENS	NEW ZEALAND WHITE CLOVER	RUMEX	ACETOSELLA	SHEEPSORREL	REMOVE SHEEPSORREL	SCREEN	4X20 WIRE MESH	GOOD				A 4X20 WIRE MESH SCREEN HOLDS THE SORREL AND DROPS THE CLOVER.
	REPENS	WHITE CLOVER	RUMEX	ACETOSELLA	SHEEPSORREL	REMOVE SHEEP SORREL.	SCREEN	6X25 SLOT	FAIR			INITIAL PURITY WAS 2800 SORREL/LB. FINAL PURITIES IN THE ABOVE TRIALS WERE 550/LB, 286/LB, 0/LB, 550/LB, 1170/LB, AND 150/LB, RESPECTIVELY.	RECOMMENDED PROCEDURE IS TO USE PNEUMATIC SEPARATOR AND A 1/24 ROUND-HOLE SCREEN. THIS YIELDED 67% WITH PURITY OF 150 SORREL/LB.
			RUMEX	ACETOSELLA	SHEEPSORREL		SCREEN	.038" ROUND HOLE	FAIR	100	100		
			RUMEX	ACETOSELLA ACETOSELLA	SHEEPSORREL SHEEPSORREL		PNEUMATIC ELECTROSTATIC		FAIR	100	100		
			RUMEX	ACETOSELLA	SHEEPSORREL		VELVET ROLL		FAIR				
			RUMEX	ACETOSELLA	SHEEPSORREL		MAGNETIC		POOR				
			RUMEX	ACETOSELLA	SHEEPSORREL		GRAVITY		POOR				
			RUMEX	ACETOSELLA ACETOSELLA	SHEEPSORREL SHEEPSORREL		PNEUMATIC SCREEN		FAIR				
592 TRIFOLIUM	REPENS	WHITE CLOVER		ACETOSELLA	SHEEP SORREL	REMOVE MISCELLANEOUS CONTAMINANTS: SHEEP SORREL, DOGFENNEL, LAMBSQUARTER, DIRT, STICKS, GRASS SEED, ETC.	FRICTION		GOOD	90		INDENT TEST CONSISTED OF A	THE FRICTION SEPARATOR REMOVED 90% OF THE SHEEP SORREL WITH VERY LITTLE CROP LOSS.
		DUTCH WHITE					INDENT	.049 "DIAMX.025 "DEEP				SAMPLE OF 20 CLOVER SEEDS AND AN UNKNOWN QUANTITY OF	THE VELVET ROLL GAVE THE BEST RESULTS. THE INDENT CYLINDER ALSO
181 TRIFOLIUM	REPENS	CLOVER	SILENE		CATCHFLY	REMOVE CATCHFLY	CYLINDER	POCKETS 104RPM, 8.75DEG,RERUN UPPER	FAIR		93	CATCHFLY SEEDS.	DID WELL, BUT HAD A HIGHER CROP LOSS.
			SILENE		CATCHFLY		VELVET ROLL	FRACTIONS TWICE	GOOD	85 98	100)	
			SILENE		CATCHFLY		VIBRATORY		POOR				
			SILENE		CATCHFLY		PNEUMATIC		POOR	\perp	1		
		1	SILENE	-	CATCHFLY		DRAPER MAGNETIC		POOR POOR	+	+		
			SILENE		CATCHFLY		ELECTROSTATIC		POOR				
													A .038" ROUND-HOLE SCREEN REMOVED ALL
629 TRIFOLIUM	REPENS	WHITE CLOVER	TRIFOLIUM		HOP CLOVER	REMOVE HOP CLOVER	SCREEN	.038 ROUND-HOLE	GOOD	100	100	MANY METHODS WERE TRIED TO REDUCE THE QUANTITY OF ALSIKE	THE HOP CLOVER FROM THE SAMPLE. ALSIKE CLOVER CANNOT BE REMOVED
												CLOVER. NONE WERE FOUND TO BE	COMPLETELY FROM WHITE CLOVER USING
955 TRIFOLIUM	REPENS	WHITE CLOVER	TRIFOLIUM	HYBRIDUM	ALSIKE CLOVER	REMOVE ALSIKE CLOVER	SCREENS		POOR		1	EFFECTIVE.	CONVENTIONAL MACHINES.
			mp reor rese	HWDD TDITT	ALGINE GLOVES		INDENT		DOOD				
		-	TRIFOLIUM TRIFOLIUM	HYBRIDUM HYBRIDUM	ALSIKE CLOVER ALSIKE CLOVER		CYLINDER COLOR SORTER		POOR		+		
			THEFOREOM	III DICEDOM	TEGINE CHOVER	REMOVE INERT	COLOR BURLER		FOOR		+	OTHER MACHINES SHOWED LIMITED	THE VELVET ROLL YIELDED THE BEST
701 TRIFOLIUM	SUBTERRANEUM	SUBCLOVER	INERT		INERT	MATERIAL (DIRT CLODS)	VELVET ROLL	11 DEG ANGLE, 220 RPM	GOOD			TENDENCIES TO MAKE THIS SEPARATION.	RESULTS WITH A FINAL PURITY OF 99.9% AND A LOSS OF 6%.
		-	INERT	-	INERT		FRICTION	SUEDE BELT, 4 PASSES			100)	
		OHDWIND TANKS	INERT		INERT	REMOVE CRACKED AND	MAGNETIC		FAIR	90	,		GERMINATION WAS IMPROVED BY 19% WITH
748 TRIFOLIUM	SUBTERRANEUM	SUBTERRANEAN CLOVER	TRIFOLIUM	SUBTERRANEUM	SUBTERRANEAN CLOVER	LOW-GERMINATION SEED.	GRAVITY	SEQ.					91.8% OF GERMINABLE SEED BEING RETURNED.
			TRIFOLIRM	SUBTERRANEUM	SUBTERRANEAN CLOVER			SEQ.	GOOD	92	2 99	SEED MEASUREMENTS INDICATE USING A 1/21" ROUND-HOLE SCREEN FOR WIDTH SEPARATION SHOULD DROP 72% OF THE DODDER AND 12% OF THE CLOVER. ALSO, A SPECIAL INDENT CYLINDER	THE MAGNETIC SEPARATOR DID THE BEST, REDUCING DODDER FROM 1300/LB TO 0 WITH 9% SHRINKAGE. OTHER POSSIBILITIES ARE WIDTH SEPARATION
		ARROWLEAF										SHOULD LIFT 76% OF THE DODDER	USING A 1/21" ROUND-HOLE SCREEN OR AN
374 TRIFOLIUM	VESICULOSUM	CLOVER	CUSCUTA		DODDER	REMOVE DODDER.	MAGNETIC		GOOD	100	100	AND REJECT THE CROP.	INDENT.
		-	CUSCUTA	-	DODDER		VELVET ROLL		POOR	-	+		
1	1	1	CUSCUTA	1	DODDER	1	VIBRATORY	I .	POOR	1 1	1		I .

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			CUSCUTA		DODDER		PNEUMATIC		POOR			
386 TRIFOLIUM	VESICULOSUM	ARROWLEAF	CUSCUTA		DODDER	REMOVE DODDER						MEASUREMENTS ONLY.
											THE FRICTION SEPARATOR SHOWED	
615 TRIFOLIUM	VESICULOSUM	ARROWLEAF CLOVER	CUSCUTA		DODDER	REMOVE DODDER	MAGNETIC		GOOD		SOME SELECTIVITY, BUT NOT 100 ENOUGH TO OFFER MUCH PROMISE.	THE MAGNETIC SEPARATOR IS THE MOST EFFECTIVE SEPARATOR FOR THIS PROBLEM.
		ARROWLEAF									THE FRICTION SEPARATOR, VELVET ROLL, DRAPER, SPIRAL, PNEUMATIC AND MAGNETIC	A SEQUENCE OF PNEUMATIC FOLLOWED BY MAGNETIC SEPARATORS GAVE GOOD
630 TRIFOLIUM	VESICULOSUM	CLOVER	CUSCUTA		DODDER	REMOVE DODDER	PNEUMATIC	SEQ.			SEPARATORS WERE UNSUCCESSFUL.	RESULTS.
			CUSCUTA		DODDER	SUBMITTER REQUESTED	MAGNETIC	SEQ.	GOOD	79 100)	
607 TRIFOLIUM	VESICULOSUM	ARROWLEAF CLOVER	DIRT		DIRT	AIR-SCREEN MACHINE SCREEN SIZES TO CLEAN ARROWLEAF CLOVER LOT.						SEVERAL RECOMMENDATIONS WERE MADE TO THE SUBMITTER BASED ON SCREEN COMPANY RECOMMENDATIONS.
												THE VELVET ROLL AND INDENT CYLINDER
452 TRIFOLIUM	VESICULOSUM	ARROWLEAF CLOVER	TRIFOLIUM	PRATENSE	RED CLOVER	REMOVE RED CLOVER.	INDENT CYLINDER	1/18X24 GA CYLINDER	GOOD		100	PERFORMED VERY WELL YIELDING PURITIES OF 99.8% WITH LESS THAN 10% LOSS.
432 IKIFOLION	VESTCOROSON	CHOVER	TRIFOLIUM	PRATENSE	RED CLOVER	REMOVE RED CHOVER.	PNEUMATIC	1/10A24 GA CIBINDER	FAIR		100	OF 99.00 WITH BESS THAN 100 BOSS.
								200 RPM, 9 DEG			100	
			TRIFOLIUM	PRATENSE PRATENSE	RED CLOVER RED CLOVER		VELVET ROLL SCREENS	INCLINE 4X20 WIRE OR 1/18	GOOD POOR		100	
850 TRIFOLIUM		ALFALFA	INERT	T I I I I I I I I I I I I I I I I I I I	INERT	REMOVE INERT MATERIAL AND MISC. WEED SEEDS.	AIR-SCREEN	SEQ. 1/16 RD. TOP, 1/21 RD. BOTTOM	GOOD			THE FINAL PRODUCT AFTER THE ABOVE SEQUENCE WAS ABOUT 95% ALFALFA AND 3% MISCELLANEOUS WEED SEED.
030 IKIFOLION		ADIADIA	INERT		INERT	WEED SEEDS.	VELVET ROLL	SEQ.	GOOD			MIGCEBBANEOUS WEED SEED.
							INDENT					
379 TRIFOLIUM		CLOVER	INERT		INERT	REMOVE SORREL	CYLINDER	SEQ.	GOOD		95	MEASUREMENTS ONLY.
379 IRIFOLIUM		CLOVER	RUMEA		SORREL	REMOVE SORRED						MEASUREMENTS ONLI.
						DETERMINE THRESHING SCREEN SIZES FOR CLOVER, LOTUS, OATGRASS, TIMOTHY					THESE ARE RECOMMENDED MANTLE SIZES BASED ON SEEDS OF THESE SPECIES FROM OUR HERBARIUM. SIZES WILL VARY FOR DIFFERENT VARIETIES. NO SAMPLE WAS	
1256 TRIFOLIUM		CLOVER	TRIFOLIUM		UNTHRESHED SEED	AND OTHERS	SCARIFIER	7X7WW, 10X10WW			OBTAINED FOR ACUTAL TESTS.	
			LOTUS ARRHENATHERU		UNTHRESHED SEED		SCARIFIER	10X10				
			M		UNTHRESHED SEED		SCARIFIER	7X7WW, 10X10WW				
			PHLEUM		UNTHRESHED SEED		SCARIFIER	14X14WW, 20X20WW				
912 TRIFOLIUM		SHAMROCK CLOVER			CHICKWEED	REMOVE CHICKWEED	VELVET ROLL	3 PASSES, 100RPM, 12 DEGREES		91	100	THREE PASSES ON THE VELVET ROLL PRODUCED A 100% PURE SAMPLE OF SHAMROCK CLOVER WITH 29.4% LOSS.
1172 TRITICUM	AESTIVUM	WHEAT	INERT		ROCKS	REMOVE SOIL AND ROCKS	AIR-SCREEN	7 1/4 /64THS X 3/4" SLOT TOP SCREEN	FAIR	90 60	THIS WAS A LOT OF SEED SPILLED IN A TRAIN DERAILMENT AND CONTAMINATED DURING RECOVERY. THE PROCESSOR DECIDED TO USE THE AIR SCREEN MACHINE IN A SCALP SIFT ONLY CONFIGURATION AND SPLIT THE 96 FLOW.	THIS MATERIAL CAN BE CLEANED BY CONVENTIONAL MEANS, THOUGH IN SOME STEPS THE CAPACITY MAY BE LESS THAN USUAL.
			INERT		ROCKS		AIR-SCREEN	1/12" X 1/2" SLOT BOTTOM SCREEN	FAIR	96 1	. 96	
			INDICI		ROCKS		AIR SCREEN	FINAL AIR TO LIFT	PAIR	50 3	. 50	
								ABOUT 1/3 OF THE				
			INERT		ROCKS		AIR-SCREEN	MATERIAL SLOW WITH LOW	GOOD	96 90	99	
			INERT		ROCKS		GRAVITY	BACKSLOPE	GOOD	96 90	99	
			INERT		ROCKS		INDENT CYLINDER	3.75MM	FAIR	99 50	100	
1249 TRITICUM	AESTIVUM	SOFT WHITE WHEAT	TRITICO	SECALE	TRITICALE	REMOVE TRITICALE	INDENT CYLINDER	6MM POCKET	FAIR		THIS MATERIAL WAS 60 SAMPLES OF FOUR VARITIES OF WHEAT FOR A POPULATION DRIFT STUDY. NO LOSS OF CROP WAS ACCEPTABLE AND THE PROCESS USED IS INTENDED TO REDUCE THE HAND PICKING OF TRITICALE.	
740 TRITICUM	AESTIVUM	WHEAT	TRITICUM	AESTIVUM	WHEAT	REMOVE SMALL AND SHRIVELED WHEAT	SCREENS	SEQ. 6 1/2X3/4 SLOTTED SCR.				SCREEN/PNEUMATIC OR SCREEN/FRICTION WILL SEPARATE SHRIVELED WHEAT FROM NORMAL WHEAT WITH GOOD RESULTS.
			mp Imi Grad	A D COUTTY OF	MILIDA M		DMBUMACTC	ALTERNATIVE 1: HIGH				
			TRITICUM	AESTIVUM	WHEAT		PNEUMATIC	AIR FLOW ALTERNATIVE 2:	GOOD		+ +	
								CARPET BELT,				
1118 TRITICUM	AESTIVUM	STEVENS	TRITICUM	AESTIVUM	WHEAT	MAKE SIZE SEPARATIONS THEN DENSITY SEPARATIONS OF STEVENS WHEAT	FRICTION	SYNTHETIC BAR 8X3/4 TOP, 7X3/4 MIDDLE, 5-1/2X3/4 BOTTOM	GOOD		THIS WAS RESEARCH BY DALE WILKINS, USDA-ARS PENDLETON TO DETERMINE IF THERE WERE DIFFERENCES IN THE GROWTH CHARACTERISTICS OF WHEAT SEEDS OF DIFFERENT SIZES AND DENSITIES. RESULTS WILL BE SENT TO US WHEN THEY ARE AVAILABLE.	
				AESTIVUM	WHEAT		GRAVITY	LAH WITH CLOTH DECK	GOOD			
1243 TRITICUM	AESTIVUM	STEVENS WHEAT	TRITICUM	AESTIVUM	SPROUT DAMAGED WHEAT	REMOVE SPROUT DAMAGED WHEAT AT HARVEST					THIS WAS AN INFORMATION REQUEST FOR METHODS TO REMOV	

NO	CROP GENUS	CROP SPECIES	CROP COMMON NAME	CONTAMINANT GENUS	CONTAMINANT SPECIES	CONTAMINANT COMMON NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS	QUALI TY	IP C	R FP	NOTES	CONCLUSION
642	TRITICUM		SOFT WHITE WHEAT	AEGILOPS		GOATGRASS	REMOVE GOATGRASS	SCREENS	2 #10 1/2 ROUND-HOLE SCREENS	GOOD		80	MIXTURE WAS NOT TYPICAL BECAUSE IT WAS SCREENINGS WHICH DID NOT CONTAIN THE SMALLER THRESHED GOATGRASS THAT MIGHT BE PRESENT IN THE ORIGINAL MATERIAL.	BECAUSE THE GOATGRASS WAS ALL LONGER THAN THE WHEAT, SCREENING WAS EFFECTIVE. THE INDENT CYLINDER WAS NOT TRIBD, BUT SHOULD BE EFFECTIVE IN THIS SEPARATION.
								SCREENS		GOOD		90		
703	TRITICUM		WHEAT	AEGILOPS		GOATGRASS	REMOVE GOATGRASS	AIR-SCREEN	SEQ.#12 RD TOP, 1/13X1/2 BOTT	GOOD	92	98 100	THE SPIRAL, INCLINED DRAPER, FRICTION, VELVET ROLL, BOUNCE PLATE, GRAVITY TABLE AND SCREENS SHOWED VARYING, BUT UNSATISFACTORY RESULTS.	BEST RESULTS WERE OBTAINED WITH THE AIR-SCREEN FOLLOWED BY THE INDENT DISK WITH A FINAL PURITY OF VIRTUALLY 100%.
				AEGILOPS		GOATGRASS			SEQ.SIZE "A" DISC	GOOD 1	00 1	00 100		
				AEGILOPS		GOATGRASS		PNEUMATIC		FAIR	92	88 99		
								INDENT						A SINGLE PASS ON THE INDENT CYLINDER REMOVED 58% OF THE WHEAT FREE OF GOATGRASS. ADDITIONAL PASSES WOULD INCREASE THE PERCENTAGE OF CROP
966	TRITICUM		WHEAT	AEGILOPS		GOATGRASS	REMOVE GOATGRASS.	CYLINDER	8MM CYLINDER, 1 PASS	GOOD	99 1	00 100		SAVED.
531	TRITICUM		WHEAT	ALLIUM		GARLIC	REMOVE GARLIC BULBLETS.	SCREENS	SEQ.1	FATR				NO PROCEDURE COULD CO
331	IKITICOM		WIIDAI	ALLIUM		GARLIC	BOBBETS.	GRAVITY	SEQ.1	FAIR				NO PROCEDORE COOLD CO
				ALLIUM		GARLIC			SEQ.2	FAIR				
				ALLIUM		GARLIC		VELVET ROLL	SEQ.2	FAIR				
				ALLIUM		GARLIC		PNEUMATIC	SEQ.2	FAIR				BEST RESULT WERE OBTAINED WITH THE ABOVE SEQUENCE WHICH SALVAGED 84% OF THE WHEAT WITH TWO BULBLETS PER 1000 GRAMS. OTHER TESTS PROVIDED GREATER
F 2.4	MD TMT CITM		WHEAT	ALLIUM		GARLIC	REMOVE GARLIC BULBLETS.	SCREENS	SEQ.10/64 RD OVER 7/64 RD	GOOD				YIELDS BUT WITH GREATER GARLIC
534	TRITICUM		WHEAT	ALLIUM		GARLIC	DULBLEID.		SEQ.SQUEEZE ROLLS	GOOD	+			COUNTS.
				ALLIUM		GARLIC			SEQ.	GOOD				
535	TRITICUM		WHEAT	ALLIUM		GARLIC	REMOVE GARLIC BULBLETS.		SEQ:10/64 RD OVER 7/64 RD	GOOD				THE ABOVE SEQUENCE YIELDED 90% OF THE WHEAT, FREE OF GARLIC. OTHER TRIALS PROVIDED GREATER WHEAT YIELDS BUT W
				ALLIUM		GARLIC		PNEUMATIC		GOOD				
216	TRITICUM		WINTER WHEAT	AVENA	FATUA	WILD OATS	REMOVE WILD OATS							AN INDENT CYLIND
528	TRITICUM		WHEAT	AVENA	FATUA	WILD OATS	REMOVE WILD OATS.	PNEUMATIC		GOOD			BOUNCE PLATE, VIBRATOR AND ELECTROSTATIC RESULTS WERE NOT GOOD.	THE PNEUMATIC SEPARATOR WAS MOST PROMISING, DROPPING ABOUT 90% OF THE WHEAT WHILE LIFTING NEARLY ALL THE OATS.
					FATUA	WILD OATS		DRAPER	RUBBER BELT	FAIR				
439	TRITICUM		WHEAT	CONTAMINANTS		CONTAMINANTS	REMOVE CONTAMINANTS	SCREENS	SEQ1.#10 AND #6-1/2 RH					THE ABOVE SEQUENCES WERE USED AND FRACTIONS SENT TO SUBMITTER. NO RESULTS AVAILABLE.
				CONTAMINANTS		CONTAMINANTS		VIBRATORY	SEQ1.80 GRIT SANDPAPER					
				CONTAMINANTS		CONTAMINANTS		SCREENS	SEQ2.#10, #7, #6-1/2 RH					
				CONTAMINANTS		CONTAMINANTS		SCREEN	SEQ3.#10 RH					
				CONTAMINANTS		CONTAMINANTS		INDENT CYLINDER	SEQ3.#10 CYLINDER					
				CONTAMINANTS		CONTAMINANTS		SCREEN	SEQ4.#10 RH					
				CONTAMINANTS		CONTAMINANTS		PNEUMATIC	SEQ4.PNEUMATIC				THE STATE OF THE S	
1193	TRITICUM		WHEAT	GALIUM		BEDSTRAW	REMOVE GALIUM	INDENT DISC	V5-1/2 DISC OR V6	GOOD	11	00	THIS WAS A SAMPLE FORM 400 TON LOT TO BE USED FOR SEED	
	TRITICUM		WHEAT	HORDEUM	VULGARE	BARLEY	REMOVE BARLEY	PNEUMATIC	V3 1/1 2/15C OK V0	FAIR			SCREENS, ELECTROSTATIC AND DRAPER WERE UNSUCCESSFUL.	THE PNEUMATIC SEPARATOR AND INDENT DISC SHOWED PROMISE. INDENT CYLINDERS WERE EITHER TOO BIG OR TOO SMALL FOR THIS SEPARATION.
				HORDEUM	VULGARE	BARLEY		INDENT DISC	A DISC	FAIR				
				HORDEUM	VULGARE	BARLEY		INDENT CYLINDER		POOR				
814	TRITICUM		WHEAT	HORDEUM	VULGARE	BARLEY	REMOVE BARLEY IN THE HULL FROM WHEAT WITH HULL REMOVED.	GRAVITY	AIR=4.5, SPEED=545, ENDSLOPE=4DEG, BACKSLOPE=0DEG, DECK=PERF CU.		94 1	83 99	SUBMITTER REQUESTED THAT BARLEY BE REDUCED TO 2% OR LESS WITH NO MORE THAN 20% CROP LOSS.	THE GRAVITY TABLE WAS MOST EFFECTIVE IN REMOVING BARLEY SEED FROM WHEAT. BARLEY WAS REDUCE TO 1%. CROP LOSS WAS IN EXCESS OF THE SPECIFIED 20% BUT MAY BE REDUCED BY REFUNNING OR ADJUSTING THE GRAVITY TABLE DIVIDER POSITION.
								INDENT					VELVET ROLLS, DRAPER, SPIRAL, PNEUMATIC AND VIBRATOR WERE	THE INDENT DISC AND CYLINDER SHOW
490	TRITICUM		WHEAT	IPOMEA		MORNINGGLORY	REMOVE MORNINGGLORY	CYLINDER INDENT DISC	#8 CYLINDER	GOOD		00 100 90	UNSUCCESSFUL.	EXCELLENT RESULTS IN THIS SEPARATION.
-				IPOMEA IPOMEA		MORNINGGLORY MORNINGGLORY			V-6 DISC 6 1/2 /64X3/4	FAIR		80	+	
				IPOMEA		MORNINGSLORI	REQUEST WAS TO REMOVE HAIRY AND COMMON VETCH, BUT THE ONLY CONTAMINANTS FOUND	SCREEN	0 1/2 /0443/4	PAIR		80		A #12 TOP SCREEN AND A #7 BOTTOM SCREEN REMOVED ALL THE LUPINE WITH LESS THAN 1% WHEAT LOSS. BECAUSE THE DOGFENNEL PIECES VARIED IN SIZE, THEY
							WERE LUPINE AND							COULD NOT BE REMOVED COMPLETELY BY
77	TRITICUM		WHEAT	LUPINUS		LUPIN	DOGFENNEL HEADS.	AIR-SCREEN	#12 OVER #7 SCREENS		\perp			SCREENING.
				ANTHEMIS	COTULA	DOGFENNEL	REMOVE WILD OATS AND	AIR-SCREEN	#12 OVER #7 SCREENS FIBRE-TRAN BELT,	FAIR				THE FRICTION SEPARATOR DID A VERY GOOD JOB OF REMOVING THE
632	TRITICUM		WHEAT	MISC.		MISC	DIRT CLODS	FRICTION	TYGON BAR	GOOD				CONTAMINANTS.

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						REMOVE MOUSE		SEQ. 1. GRADER, #7				BOTH OF THE ABOVE SEQUENCES WORKED WELL, THE FIRST ONE REMOVING ALL MOUSE DROPPINGS, AND THE SECOND ONE
572 TRITICUM		WHEAT	TERDS TERDS		TERDS TERDS	DROPPINGS.	OTHER PNEUMATIC	SHELL SEQ. 1.	GOOD	10	0 100	LEAVING JUST A TRACE.
			TERDS		TERDS		PNEUMATIC	SEQ. 2. CRUSHING	GOOD	10	100	
			TERDS		TERDS		OTHER	ROLLS				
			TERDS		TERDS		PNEUMATIC	SEQ. 2.	GOOD			LENGTH SEPARATORS EFFECTIVELY REMOVED SOFT WINTER WHEAT FROM THE DURUM
						REMOVE BARLEY AND	INDENT					WHEAT, BUT NO SATISFACTORY METHOD WAS
683 TRITICUM		DURUM	TRITICUM TRITICUM		SOFT WHITE WHEAT	SOFT WHITE WHEAT	CYLINDER INDENT DISC	#16 CYLINDER A INDENT DISK	GOOD			FOUND TO REMOVE THE BARLEY.
						REMOVE WEEVIL-						
525 TRITICUM		WHEAT				INFESTED KERNELS FROM GOOD KERNELS.	ELECTROSTATIC					ALL FRACTIONS RETURNED TO SUBMITTER FOR X-RAY OR DISSECTION ANALYSIS.
1091 TRITICUM		WHEAT					OTHER	BOUNCE PLATE				
							SCREENS	WRINGER ROLLS				
							PNEUMATIC	SEQ.				
						USE COLOR SORTER TO DIVIDE INTO						
						FRACTIONS WITH						
1146						DIFFERENT PROTEIN CONTENT?		ana.				
1146 TRUTICUM	SPECIES	WHEAT				CONTENT?	BELT THRESHER	SEQ.			THIS MATERIAL IS PART OF THE	
											WETLANDS RESTORATION/CONSTRUCTION RESEARCH BEING CONDUCTED AT OSU. HAND COLLECTED MATERIA	
1216 ТҮРНА	LATIFOLIA	CATTAIL				DETERMINE CODITIONING SEQUENCE	OTHER				NEEDS THRESHING AND SEPARATING.	
111111	LATTI OLIT	CITTILL				THRESH SEED SAMPLES	OTHER				obrinari inc.	
						ON FILAMENT THRESHER: MARIGOLD,						
						ARCTOTIS,						THE SEED SAMPLES WERE THRESHED ON THE
						POLYGONELLA						FILAMENT THRESHER AND FRACTIONS SENT
941 VARIOUS	VARIOUS	VARIOUS	VARIOUS		VARIOUS	AMERICANA.	OTHER	FILAMENT THRESHER				TO SUBMITTER. NO RESULTS. COLEUS, PETUNIA AND SNAPDRAGON
						REMOVE INERT						RESPONDED WELL TO THE VIBRATOR
						MATERIAL FROM IMPATIENS, COLEUS,						SEPARATOR WITH 180 GRIT DECK OR A SANDBLASTED DECK. THE IMPATIENS DID
						PETUNIA AND						NOT RESPOND TO THE VIBRATOR, BUT
584 VARIOUS		VARIOUS	INERT		INERT	SNAPDRAGON SEED LOTS.	VIBRATORY	180 GRIT DECK OR SANDBLASTED DECK	GOOD			WORKED WELL WITH 6X25 AND 1/23 SCREENS.
564 VARIOUS		VARIOUS	INERI		INERI	1015.	VIBRATURY	6X25 WITH 1/23 ROUND				SCREENS.
			INERT		INERT		SCREENS	HOLE	GOOD			
						MEASURE 5 SEEDS EACH OF BENTGRASS,					SUBMITTER REQUESTED MEASUREMENTS TO HELP FIND	
						KENTUCKY BLUEGRASS					METHOD OF SEPARATING THE	SUBMITTER WAS GIVEN COPY OF
603 VARIOUS		VARIOUS				AND ANNUAL BLUEGRASS.					BLUEGRASS GROATS FROM THE CROP.	MEASUREMENT SHEET AND PROPER INDENT CYLINDER SIZE FOR THE LOT.
UUS VIIICIOUS		VIIICIOOD				WHAT ARE BUSHEL					CROZ .	CIBINDA OTBE FOR THE BOT.
						WEIGHTS FOR BENTGRASS, PERENNIAL						
						RYEGRASS, TALL						BUSHEL WEIGHTS: BENTGRASS=50LBS,
						FESCUE, FINE FESCUE, ORCHARDGRASS AND						PERENNIAL RYEGRASS=25, TALL
929 VARIOUS		VARIOUS				BLUEGRASS.						FESCUE=25, FINE FESCUE=19, ORCHARDGRASS=14, BLUEGRASS=22.
		ALYSSUM									REQUEST WAS FOR INFORMATION	
		DAHLIA LAVENDER									CONCERNING CONDITIONING OF THE ALYSSUM DAHLIA LAVENDER	
		LOBELIA									LOBELIA STATICE STOCKS	
		STATICE SOTCKS									VERBENIA. A REPORT WILL BE PRINTED AND SENT AND A VISIT	
1203 VARIOUS		VERBENA									MAY BE SCHEDULED.	
											THIS WAS A REQUEST FOR INFORMATION ON EQUIPMENT FOR	
											CONDITIONING SPECIES OF	
											NATIVE SHRUB AND TREES WITH	
											BERRIES AS SEED UNITS. INFORMATION WAS SENT	
											CONCERNING NURSERY EQUIPMENT	
		NATIVE TREE AND SHRUB				REMOVE SEED FROM THE BERRIES OF VARIOUS					INCLUDING THE DYBVIG DEPULPER. A MANUFACTURERS	
1238 VARIOUS		BERRIES				TREES AND SHRUBS					LIST WAS ALSO SENT.	
						DEMONE DIGUESE					NO NIGHTSHADE WAS FOUND IN	
						REMOVE PIGWEED, MELBA, NIGHTSHADE,		SEQ.1/24X1/2 OVER			SAMPLE AND "MELBA" WAS NOT RECOGNIZED BY THE SEED	THE ABOVE SEQUENCE YIELDED A 93% PURE
651 VERBENA		VERBENA	INERT		INERT	STEMS	SCREENS	.038 RD-HOLE			TESTING LAB.	PRODUCT WITH 10% LOSS.
		+	-				PNEUMATIC INDENT	SEQ.				
							CYLINDER	SEQ. #8 CYLINDER				
							SCREEN	SEQ. 5 1/2 ROUND- HOLE	GOOD		93	
		1						1950V, PINNING	GOOD			
196 VERI	DIRTII	SOIL	STRIGA	ASIATICA	WITCHWEED	REMOVE WITCHWEED.	ELECTROSTATIC	POSITION	POOR	8		A SATISFACTORY SEPARATION COUL
			STRIGA	ASIATICA	WITCHWEED		SCREENS	60X60 OVER 150 MESH		10	0 100 VERNONIA IS UNDER	
1103 VERNONIA	GALAMENSIS	VERNONIA	VERNONIA	GALAMENSIS	VERNONIA	DELINT					CONSIDERATION	

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						THRESH AND CLEAN. REMOVE PAPPUS HAIRS AND FLOWER HEADS FROM OIL BEARING							
1130 VERNONIA	GALAMENSIS	VERNONIA	VERNONIA	GALAMENSIS	UNTHRESHED VERNONIA	SEED FOR REPLANTING.	SCARIFIER	LAH					
			VERNONIA	GALAMENSIS	UNTHRESHED VERNONIA		SCARIFIER	LAH				THIS WAS UNCLEANED MATERIAL	
								SEQ. LAH STD.BRISTLE, #7				FROM COSTA RICA. 36% OF THE ORIGIANL MATERIAL WAS RETURNED IN THE SEED	BRUSH DEBEARDER AND AIR-SCREEN MACHINE WORK WELL TO THRESH AND CLEAN
1187 VERNONIA	GALEMENSIS	VERNONIA	VERNONIA	GALAMENSIS	FIELD RUN VERNONIA	DEBEARD AND CLEAN	SCARIFIER	MANTLE	GOOD			FRACTION.	FIELD RUN VERNONIA.
			VERNONIA	GALAMENSIS	FIELD RUN VERNONIA		AIR-SCREEN	#16RH TOP, 4X26WW BOTTOM, AIR	GOOD				
				OHER HERE		THRESH AND SEPARATE	IIII DOMBEN	BOTTOM, MIK	COOL				
1127 VERNONIA		VERNONIA	VERNONIA		UNTHRESHED VERNONIA	VERNONIA SEEDS							
						REMOVE IMPURITIES: HAIRY VETCH, TINY VETCH, WILD OATS, WHEAT, WILD MUSTARD, WILD TURNIP, MALLOW, WILD RADISH,		SEQUENCE 1ST RUN:				TESTING WITH 6X6 ESM	AIR SCREEN YIELDED GOOD SEPARATION.
			MISCELLANEOU			MAYWEED, INERT		#12 AND #9 ROUND				PNEUMATIC SEPARATOR ALSO	PNEUMATIC FOLLOWED BY SCREENING WILL
729 VICIA	SATIVA	COMMON VETCH	S		MISCELLANEOUS	MATERIALS	AIR-SCREEN	HOLE SCREENS SEQUENCE 2ND RUN:				YIELDED ENCOURAGING RESULTS.	ALSO YIELD GOOD SEPARATION.
			MISCELLANEOU		MISCELLANEOUS		AIR-SCREEN	#12 ROUND HOLE AND 7/64X3/4 SLOTTED HOLE SCREENS	GOOD		10		
					III DOBBER IN BOOD		IIII DOMBEN	HODE CONDENS	COOL		1		99% OF THE ORIGINAL SAMPLE OF VETCH
						DEMOVE DROVEN VETCH		17.5 DEG INCLINE,					WAS RECLAIMED ON THE DRAPER WITH A PURITY OF 99.57%. ALL OF THE OATS
63 VICIA	SATIVA	COMMON VETCH	VICIA	SATIVA	BROKEN VETCH	REMOVE BROKEN VETCH AND OATS.	DRAPER	24FPM	GOOD	97 8	5 10	o l	WERE REMOVED.
						REMOVE GARLIC, MISC WEED SEEDS, INERT MATERIAL AND WEEVIL EATEN VETCH (APPROXIMATELY 40%							
62 VICIA	VILLOSA	HAIRY VETCH	AT.T.TIIM		GARLIC	OF VETCH IS WEEVIL EATEN).	AIR-SCREEN	#11 OVER #7 SCREEN	GOOD	96 7	5 0		92% OF THE ORIGINAL SAMPLE WAS RECOVERED
02 VICIA	VIBBOSA	HAIRI VEICH	ABBIOM		GARLIC	REMOVE WILD WINTER	AIR SCREEN	#II OVER #7 SCREEN	GOOD	30 ,	J ,		
342 VICIA	VILLOSA	HAIRY VETCH	PISIIM	SATIVUM	WINTER PEAS	PEAS FROM HAIRY VETCH. PURITY MUST BE 95% OR BETTER.	VELVET ROLL	660 RPM	GOOD		9	5	BOTH THE MAGNETIC SEPARATOR AND THE VELVET ROLL EXCEDED THE DESIRED 95% PURITY.
			PISUM	SATIVUM	WINTER PEAS		MAGNETIC		GOOD		9'		
			PISUM PISUM	SATIVUM SATIVUM	WINTER PEAS		ELECTROSTATIC		POOR POOR				
			PISUM	SATIVUM	WINTER PEAS WINTER PEAS		PNEUMATIC DRAPER		POOR		+		
			PISUM	SATIVUM	WINTER PEAS		VIBRATORY		POOR				
			PISUM	SATIVUM	WINTER PEAS	REMOVE COMMON VETCH, WHEAT, WILD GARLIC,	OTHER	RESILIENCE	POOR				
24 VICIA	VILLOSA	HAIRY VETCH	VICIA TRITICUM	SATIVA	COMMON VETCH	CORNCOCKLE AND LUPINE.	AIR-SCREEN SPIRAL	SEQ.#10 ROUND OVER #7 ROUND SEQ.OVER #7 FRACTION	GOOD				THE AIR-SCREEN/SPIRAL/DRAPER SEQUENCE CAN MAKE THIS SEPARATION.
								SEQ.FAST CHUTE					
			ALLIUM	VINEALE	WILD GARLIC	REDUCE HARDSEEDEDNESS FOR	DRAPER	FRACTION	GOOD				
						USE IN COVER CROP IN							
1254 VICIA	VILLOSA TROPICANA	HAIRY VETCH				WHEAT TEST VIBRATOR SEPARATOR FOR REMOVAL OF INERT AND						THE VIBRATOR SEPARATOR WITH A POLISHED METAL DECK DID A GOOD JOB OF REMOVING INERT MATERIAL FROM VINCA SEED.	INERT MATERIAL CAN BE REMOVED FROM VINCA SEED EFFECTIVELY WITH A
1242 VINCA	ROSE	VINCA	INERT			SMALL SEED	VIBRATORY	POLISHED METAL DECK	GOOD	9	0	SMALL SEED WAS NOT EFF	VIBRATOR SEPA
			INERT		INERT, SMALL SEEDS		SCREENS	1/14"TOP, 20X20 BOTTOM	GOOD				
			INERI		INERI, SMABL SEEDS		SCREENS	BOTTOM	GOOD				TWO PASSES ON THE VIBRATOR SEPARATOR WORKED VERY WELL. THE FRICTION SEPARATOR REMOVED ROUNDED CLODS ONLY
611 VIOLA	TRICOLOR	PANSY	DIRT		DIRT	REMOVE MUD CLODS	FRICTION		FATR				AND MIGHT BE USED WITH THE VIBRATOR TO REMOVE ALL THE CLODS.
III VIONA	-1120201					1111011 1101 01000	INTELLOR	SEQ. 180 GRIT			+		THE CHOPS.
	-		DIRT		DIRT		VIBRATORY VIBRATORY	SANDPAPER SEQ. SMOOTH ALUMINUM	GOOD	\vdash	-		
			DIRI		DIRI		VIBRATORY	SEQ. SMOOTH ALUMINUM	GOOD				THE VIBRATOR AND VELVET ROLLS PERFORMED VERY WELL. THE SUBMITTER
542 VIOLA		PANSY	DIRT		DIRT	REMOVE ROCKS, DIRT CLODS, INERT.	VIBRATORY		GOOD				INTENDS TO LOOK INTO BUYING A VIBRATOR SEPARATOR.
			INERT		INERT		VELVET ROLL		GOOD				
	-		INERT		INERT		PNEUMATIC	SANDPAPER DRUM	FAIR		-		
	+		INERT		INERT INERT		SCARIFIER SPIRAL	SANDPAPER DRUM	POOR POOR		+		
602 XEROPHYLLUM	TENAY	BEARGRASS	INERT		INERT	REMOVE INERT	PNEUMATIC					SIX FRACTIONS WERE OBTAINED OVER AN AIR VELOCITY RANGE OF 170 TO 550 FPM.	ALL FRACTIONS WERE SENT TO SUBMITTER FOR EVALUATION.
002 ABROPHILLUM	LENMA	CCARDARAGE	INEKI		INDRI	LENGTH-GRADE THE CORN TO REMOVE 10- 15% OF THE SMALL	FNEOMATIC					170 10 330 FEM.	FOR EVALUATION.
						CULL ROUNDS AND							THE MM INDENT DISC LIFTED THE PROPER
351 ZEA	MAYS	SWEET CORN	ZEA	MAYS	CORN	SHORT SHORTS.	INDENT DISC	SIZE MM DISC	GOOD				FRACTION OF ROUNDS AND SHORTS.

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								FIBRE-TRAN BELT,					MANY TRIALS WERE MADE WITH OTHER SEPARATORS, BUT ONLY THE FRICTION SEPARATOR SHOWED A MEASURE OF SELECTIVITY. ADDITIONAL TEST WORK WOULD BE NEEDED TO MAKE AN ACCEPTABLE
565 ZEA	MAYS	SWEET CORN	ZEA	MAYS	FIELD CORN	REMOVE FIELD CORN.	FRICTION	FOAM BAR	FAIR			THE BELT THRESHER WAS USED IN	SEPARATION.
												HOPES OF REMOVING THE SHARP POINT ON EACH KERNEL OF FIELD	NO METHOD WAS FOUND TO ADEQUATELY REMOVE THE FIELD CORN FROM SWEET
568 ZEA	MAYS	SWEET CORN	ZEA ZEA	MAYS MAYS	FIELD CORN FIELD CORN	REMOVE FIELD CORN.	FRICTION BELT THRESHER		POOR			CORN	CORN.
		SWEET CORN				REMOVE FIELD CORN							THE FRICTION SEPARATOR CAN BE USED FOR THIS SEPARATION, BUT COMPLETE REMOVAL OF THE FIELD CORN IS VERY DIFFICULT. SOME SAMPLES RESPOND VERY
775 ZEA	MAYS	SWEET CORN	ZEA	MAYS	FIELD CORN OUTCROSS	OUTCROSS	DRAPER	BRUSH SEPARATOR AT	POOR				DIFFERENTLY FROM OTHERS.
			ZEA	MAYS	FIELD CORN OUTCROSS		FRICTION	30 DEGREES, FOAM SEPARATOR AT 34 DEGREES.	FAIR				
								CARPET W/SCOTCH-				SEVERAL PASSES WERE NECESSARY. RERUNNING THE DISCARD FRACTION WAS NECESSARY TO RECLAIM LOST CROP SEED AND RECLEANING THE CLEAN FRACTION WAS NECESSARY TO REMOVE A MAJORITY OF THE	THIS SEPARATION MAY OR MAY NOT HAVE BEEN FFFECTIVE ENOUGH FOR THE SUBMITTER. THIS MIXTURE IS NOT A PARTICULARLY GOOD ONE FOR THE FRICTION SEPARATOR BECAUSE THE ROUGH
826 ZEA	MAYS	SWEET CORN	ZEA	MAYS	FIELD CORN	REMOVE FIELD CORN	FRICTION	BRITE BAR	FAIR			FIELD CORN. SWEET CORN HAD BEEN TREATED	PARTICLE IS THE DESIRED PRODUCT.
1037 ZEA	MAYS	SWEET CORN	ZEA	MAYS	FIELD CORN	REMOVE FIELD CORN	FRICTION	CARPET BELT, FOAM BAR, 5 DEGREE BAR ANGLE	FAIR		30	WITH 80% CAPTAN, 2 OZ PER CWT, WHICH MAY HAVE AFFECTED RESULTS. THIS REPORT FORMERLY UNDER SAMPLE # 736.	TESTS WITH UNTREATED SWEET CORN SHOULD BE MADE BEFORE DEFINITE RESULTS CAN BE REPORTED.
			ZEA	MAYS	FIELD CORN		FRICTION	4 FT CARPET BELT, BRUSH BAR	GOOD		90		
			ZEA	MAIS	FIELD CORN	DETERMINE		BRUSH BAR	GOOD				
1142 ZEA	MAYS	SWEET CORN	ZEA	MAYS	DISCOLORED SWEET	REFLECTANCE SPECTRUM OF DISCOLORED AND NORMAL CORN AND TEST COLOR SORTER. CAN A VIBRATORY	COLOR SORTER		GOOD	8	30	THE SPRETROPHOTOMETER WAS USED TO DETERMINE A REFLECTANCE DIFFERENCE BETWEEN THE N	USE COLOR SORTER WITH #22 FILTER TO REMOVE DISCOLORED CORN SEED FROM NORMAL.
1149 ZEA	MAYS	CORN	ZEA	MAYS	GERM	REDUCE THE HAND WORK NECESSARY TO DO QUALITY CONTROL ON THESE SEPARATIONS, THAT IS CAN A VIBRATORY SEPARATOR SEPARATE CORN GERM FROM ENDOSPERM.	VIBRATORY					DON COLE BROUGHT THIS IN FOR MATER INTERNATIONAL (JEAN MATER 753-7335) WHO HAD RECIEVED IT FROM SEEDBURO EQUIPMENT CO. THE CONTACT AT SEEDBURO IS KATHERINE A. READING.	
						SIZE TWO VARIETIES OF CORN KERNELS (MAIZ FINE CLIMACELIENTE AND HSO MOSQ.) BY WIDTH						THE HSO MOSQ. CORN WAS WIDTH SEPARATED ON #36, #29 AND #25 ROUND-HOLE SCREENS. FOR THICKNESS SEPARATION, THE HELD FRACTION FROM THE #25	BOTH VARIETIES WERE WIDTH SEPARATED ON A STACK OF ROUND-HOLE SCREENS, THEN THICKNESS SEPARATED ON SLOTTED-
325 ZEA	MAYS	CORN				AND THICKNESS.						WAS PUT THR	HOLE SCREENS. NO RESULTS WERE SATISFACTORY. BEST
252 ZINNIA		ZINNIA	CONES		CONE PARTICLES CONE PARTICLES	REMOVE CONE PARTICLES.	PNEUMATIC VIBRATORY	SEQ.	POOR POOR				RESULTS WERE OBTAINED BY CONCENTRATING THE CONE PIECES IN THE DROPPED FRACTION OF THE BLOWER AND THEN CLEANING THE LIFTED FRACTION FURTHER ON THE VIBRATOR.
			CONES		CONE PARTICLES		SCREENS	oby.	POOR				
			CONES		CONE PARTICLES CONE PARTICLES		ELECTROSTATIC VELVET ROLL		POOR POOR				
			CONES		CONE PARTICLES		GRAVITY		POOR				THE ABOVE SCREENING/PNEUMATIC SEPARATION YIELDED GOOD RESULTS.
650 ZINNIA		ZINNIA	INERT		INERT	REMOVE STICKS, EMPTY SEED	SCREENS	SEQ.5 1/2X3/4 OVER #7 RD-HOLE					SEPARATION FIELDED GOOD RESULTS SIMILAR RESULTS WERE OBTAINED WITH ONE SCREENING FOLLOWED BY TWO PNEUMATIC SEPARATIONS AND TWO SCREENINGS FOLLOWED BY PNEUMATIC AND LENGTH SEPARATIONS.
			INERT			SEPARATE ZINNIA SEED FROM SAMPLE OBTAINED		SEQ.	GOOD			99	A NUMBER OF PROCESSING OPERATIONS CAN BE PERFORMED THAT WILL PRODUCE ACCEPTABLE SEED INCLUDING PNEUMATIC
278 ZINNIA		ZINNIA	LIGHT TRASH		LIGHT TRASH	BY THRESHING WINDROWED PLANTS.	PNEUMATIC		GOOD				SEPARATION, SCREENING AND USE OF INDENT DISC.
			SMALL TRASH		SMALL TRASH		SCREEN	3/64X5/16 SLOT	GOOD				
			SMALL TRASH		SMALL TRASH		INDENT DISC	SIZE A DISC	GOOD				
		ZINNIA-GOLD.	TRASH		TRASH		ELECTROSTATIC		POOR		+		FINAL SAMPLE, DROPPED IN PNEUMATIC
130 ZINNIA		DAWN	TRASH		TRASH	CLEAN SEED	SCREENS	SEQ.1/13X1/2 OVER #7			+		SEPARATOR, WAS RELATIVELY CLEAN.
			TRASH		TRASH		PNEUMATIC	ON #7			+		PROCESSED WITH SUBMITTER PRESENT. NO
129 ZINNIA 1167 ZIZANIA	AQUATICA	ZINNIA WILDRICE	ZIZANIA	AQUATICA	UNTHRESHED WILDRICE	CLEAN SEED THRESH					+		RECORD.

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1241	ZOYSIA	JAPONICA	ZOYSIA GRASS				IMPROVE GERMINATION BY SCARIFICATION AND/OR HULL REMOVAL.					REQUEST WAS FOR INFORMATION REGARDING ZOYSIA GRASS SEED CONDITIONING METHODS AND INFORMATION ON SCARIFICATION.	
		on onton					DETERMINE METHODS TO REMOVE FROM THE					INFORMATION ON BUILDING	
1189	ZOYSIA		ZOYSIA GRASS				HULL.						OHAGUCDACC WAS DEMOVED IN CAMPLES 519
							CHECK REDORDS FOR METHODS FOR REMOVING						QUACKGRASS WAS REMOVED IN SAMPLES 518 AND 208. IN 208, BY R5 DISK AND 1/19 AND 1/20 ROUND HOLE SCREEN. 518
930			QUACKGRASS	AGROPYRON	REPENS	QUACKGRASS	QUACKGRASS.						YIELDED NO USABLE RESULT.
							REMOVE BROWNISH BLACK SEEDS (APPARENTLY BAD						
102			CARPET OF SNOW	BLACK SEEDS		CARPET OF SNOW	FLOWER SEEDS) AND TRASH.	VIBRATORY	FINE TEXTURED SANDPAPER	FAIR			NO ENTIREL
				BLACK SEEDS		CARPET OF SNOW		PNEUMATIC		POOR			
				BLACK SEEDS		CARPET OF SNOW		MAGNETIC		POOR			
				BLACK SEEDS		CARPET OF SNOW		ELECTROSTATIC		POOR			
				BLACK SEEDS	CARPET OF SNOW			SCREENS		POOR			
78			COBALT	BLOCKY	RHOMBIC	COBALT PARTICLES	REMOVE SLIVERS AND FLATS FROM BLOCKY RHOMBIC PARTICLES.	VIBRATORY	VARIOUS SURFACES	GOOD			VERY GOOD RESULTS WERE OBTAINED WITH THE VIBRATOR USING VARIOUS SURFACES; FINE TEXTURED CLOTH, VERY FINE SANDPAPER, AND ALUMINUM.
									SEQ 17/64 RH TOP,			LITTLE IS INITIALLY KNOWN ABOUT THIS MATERIAL. GENUS	, , , , , , , , , , , , , , , , , , , ,
1109			CAROSTAN	CAROSTAN		CAROSTAN		AIR-SCREEN	1/23X3/4 SH BOTTOM #10 SQW ON MIDLINGS	GOOD		AND SPECIES ARE	
				CAROSTAN		CAROSTAN		SCARIFIER	FRACTION	GOOD			
				CAROSTAN		CAROSTAN		AIR-SCREEN	SEQ 1/17 RH TOP, .038 RH BOTTOM	GOOD			
996				FESTUCA	ARUNDINACEA	TALL FESCUE	REMOVE TALL FESCUE	SCREEN	THIS	98	98 99		USE SCREEN
								GRAVITY	THAT	98	50 99		THE SAMPLE WAS PASSED THROUGH A 45X45
423			KONSYL	INERT		INERT	REMOVE INERT	SCREENS	SEQ.45X45 WIRE OVER				WIRE SCREEN AND A 60X60 WIRE SCREEN. THE FRACTION OVER THE 60X60 WAS RUN OVER THE VIBRATOR TO SALVAGE MORE MATERIAL. THE FRACTION OVER THE 45X45 WAS PASSED THROUGH A 1/21 ROUND- HOLE AND A .027" ROUND-HOLE.
									SEQ.AL DECK, FRACT				
				INERT		INERT		VIBRATORY	OVER 60X60 SEQ.1/21 OVER .027",FRACT OVER				
				INERT		INERT		SCREENS	45X45			THE FRACTION OF LARGE	
												MATERIAL HELD ON THE 1/12 ROUND-HOLE SCREEN CONTAINED MUCH SEED SO IT WAS PROCESSED	
438			COTTONGRASS	INFOT		COTTON	REMOVE "COTTON" FROM SEED.	BELT THRESHER	SEO	GOOD		ON THE LAB DEBEARDER, THEN SCREENED AND BLOWN LIKE THE REST OF THE LOT TO SALVAGE THE SEED.	BELT THRESHING, SCREENING ON 1/12 AND .024" ROUND-HOLE SCREENS, AND BLOWING IN THE PNEUMATIC SEPARATOR YIELDED THE SEED IN A RELATIVELY CLEAN STATE.
150			COTTONOIGIOD				5225		SEQ.1/12 OVER .024"			THE GEOD!	THE GOLD IN IT REMITTED COMM STITE.
				INERT INERT		COTTON COTTON		SCREENS PNEUMATIC	RH SEQ.	GOOD GOOD			
			SUMMER SAVORY, SAGE, THYME,				REMOVE INERT MATERIAL (STICKS, STEMS, DUST) FROM FOUR DIFFERENT HERB		SUMMER SAVORY: #8, THEN, .027" ROUND			SUMMER SAVORY WITH INDENT CYLINDER PROVIDED HIGH QUALITY PRODUCT, BUT WAS SLOW	SEVERAL KINDS OF DRIED HERBAL MATERIAL CAN BE CLEANED BY SEED
728			BASIL	INERT		INERT	SAMPLES	SCREENS	HOLE SCREENS	GOOD		AND SUBJECT TO JAMMING	PROCESSING EQUIPMENT.
				INERT		INERT		PNEUMATIC	BASIL: 200 FPM	FAIR	HIG		
				INERT		INERT		AIR-SCREEN	SUMMER SAVORY	GOOD			
									SAGE: #25 ROUND HOLE, THEN PULVERIZED, THEN #8		HIG		
				INERT		INERT		SCREENS	ROUND HOLE	GOOD	Н		THE BELT THRESHER HAS THE POTENTIAL
							WHAT EQUIPMENT WOULD THRESH AND CLEAN GUAYOLE SEEDS ON A		SEQ.CLEARANCE: 0,			ALL FRACTIONS OBTAINED WERE SENT TO THE SUBMITTER FOR	FOR INCREASING THRESHING CAPACITY MANYFOLD, BUT GERMINATION TESTS ARE NEEDED FOR THE NONLIFTED FRACTION TO TEST FOR SEED DAMAGE. SCREENS AND PNEUMATIC SEPARATOR DID A GOOD JOB OF
786			GUAYULE	INERT		INERT		BELT THRESHER	.039, AND .061			EVALUATION.	CLEANING THE SEED.
				INERT INERT		INERT INERT		SCREEN SCREEN	6X22 WIRE MESH 1/20 ROUND HOLE				
				INERT		INERT		PNEUMATIC					
1023			TREE SEED	INERT		PITCH	REMOVE INERT, PITCH					A THIS PROBLEM SAMPLE FORMERLY	SAMPLE WAS BELT-THRESHED, THEN
1070			DEER WEED	INERT		INERT	THRESH AND CLEAN	BELT THRESHER	SEQ.			PART OF PROBLEM SAMPLE #710	CLEANED BY SCREENING AND BLOWING.
\vdash				INERT		INERT INERT		SCREEN PNEUMATIC	SEQ. 1/19 ROUND-HOLE SEQ.		 		
												·	

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1071			GOLD FIELDS	INERT		INERT	CLEAN SEED	PNEUMATIC		FAIR			THIS SAMPLE FORMERLY PART OF PROBLEM SAMPLE #710.	VERY LIMITED TRIALS WERE MADE WITH THIS LOT. AIR SEPARATION DID A FAIR JOB OF REMOVING INERT MATERIAL.
1105			DESERT CHICKORY	INERT		INERT	REMOVE INERT	SCREENS	SEQ.18X18 OVER 6X30 WIRE MESH	GOOD	40		A 2MM INDENT CYLINDER MIGHT ALSO BE AS EFFECTIVE AS THE VIBRATOR IN REMOVING THE LONG FLAT INDERT PARTICLES THAT WERE LEFT IN THE SAMPLE AFTER BLOWING.	SCREENING WITH AN 18X18 MESH SCREEN OVER A 6X30 MESH SCREEN REMOVED MOST OF THE INRET MATERIAL. THE BLOWER AND VIBRATOR REMOVED MOST OF THE REST ALTHOUGH STATIC WAS A PROBLEM IN THE BLOWER. RESULTING PURITY WAS ROUGHLY 98%.
1103			CHICKORI	INERT		INERT	THE DICTION		SEQ.	FAIR			BEOWENG.	300.
									SEQ.SANDBLASTED AL					
				INERT		INERT		VIBRATORY	DECK	GOOD		98		SCREENING WITH A 6X30 ON TOP OF A
							REMOVE INERT		SEQ.6X30 OVER 24X24					24X24, FOLLOWED BY BLOWING YIELDED A
1106			BLADDERPOT	INERT INERT		INERT	MATERIAL	SCREENS PNEUMATIC	WIRE MESH		70 95			VERY CLEAN SAMPLE WITH LITTLE LOSS.
				INEKI		INERI	REMOVE INERT	PNEUMATIC	SEQ. SEQ.6X26 OVER 18X18	GOOD	20			
							MATERIAL (PLANT		OVER 26X26 WIRE MESH					
1107			MEXICAN HAT	INERT INERT		INERT	PARTS).	SCREENS PNEUMATIC	SCREENS SEQ.	FAIR FAIR	20	75		THIS LOT WAS VERY DIFFICULT BEC
			TITANIUM				REMOVE TOOL BIT FRAGMENTS MADE OF TUNGSTEN-COBALT-		owy.			,,	MACHINES THAT WERE INEFFECTIVE WERE ELECTROSTATIC, INDENT CYLINDER, VIBRATOR AND	THE MAGNETIC, PNEUMATIC, AND AIR- SCREEN SEPARATORS ALL REMOVED THE CONTAMINANT WITH LITTLE LOSS OF TITANIUM. AS A RESULT OF THE TESTS, THE SUBMITTER OBTAINED A PNEUMATIC
511				METAL		FRAGMENTS	CARBON ALLOY.	PNEUMATIC		GOOD			GRAVITY.	SEPARATOR FOR THIS SALVAGE OPERATION.
-				METAL METAL		FRAGMENTS FRAGMENTS		AIR-SCREEN MAGNETIC	#7 AND #6 SCREENS	GOOD		00 100 00 100		
						LAMBINIO				3000	120	00 100	FIRST TRIAL OF ACTUAL SEED IN	
1079			MUSTARD	NONE			LOW GERM	COLOR SORTER	ULTRAVIOLET HEAD				PRODUCTION FOR UV SORTING	
1004			QUINOA	QUINOA		NONE	TEST LAH HULLER SCARIFIER	SCARIFIER	#14 SQUARE WIRE	GOOD				LAH HULLER SCARIFIER DID A GOOD JOB OF REMOVING THE HULLS
719			PALM	SHELLS		SHELLS	SEPARATE SHELLS FROM MEATS WITH FRICTION SEPARATOR.	FRICTION	BRUSH BAR, CARPET BELT, 3 PASSES	GOOD		90		THE FRICTION SEPARATOR DOES A GOOD JOB, YIELDING A 90% PURE MEAT SAMPLE WITH 10% LOSS. THE SEPARATION CAN BE IMPROVED BY SIZING THE PALM NUT SAMPLE BY THICKNESS ON SCREENS AND THEN RUNNING EACH FRACTION OVER THE FRICTION SEPARATOR.
									SEQ.20/64X3/4,					
				SHELLS		SHELLS		SCREENS	16/64X3/4, 12/64X3/4,8/64X3/4					
				SHELLS		SHELLS			SEQ.					
794			PECAN	WORMS		WORMS	REMOVE WORMS	SCREEN	SEQ.#12 1/2 OR #13	GOOD		75	OVER-SCREEN FRACTION FROM SCREENING WENT TO FRICTION SEPARATOR.	SCREENING GREATLY REDUCES THE CONTAMINANT PRIOR TO HAND-PICKING. SCREENING FOLLOWED BY ELECTROSTATIC SEPARATION MIGHT REDUCE WORM CONTENT TO ACCEPTABLE LEVELS WITHOUT HAND- PICKING.
170				WORMS				FRICTION	SEQ.CARPET, FOAM BAR INCLINED 7DEGREES	GOOD		84 100		
175				WORMS				ELECTROSTATIC	INCLINED /DEGREES	GOOD		93		
250							IMPROVE GERMINABILITY OF THIS LOW GERMINATION							SAMPLES SENT TO SUBMITTER FOR
395			HONEYDEW			HONEYDEW	LOT.	PNEUMATIC						GERMINATION TESTS.
								ELECTROSTATIC	18KV, ELECTRODE IN LIFT POSITION					
								EBECTROSTATIC	18KV, ELECTRODE IN					
							PRIVATE TOU	ELECTROSTATIC	PIN POSITION					The second secon
482			CYPRESS PINE			HONEYDEW	REMOVE LOW- GERMINATION SEED.	PNEUMATIC	10 TRIALS					FRACTIONS FROM ALL TRIALS WERE SENT TO SUBMITTER FOR EVALUATION.
			NO WORK											
520			DONE.			HONEYDEW		ELECTROSTATIC SCREENS	SEQ.		-	_		
									SEQ.					
523			GRASS, SEVERAL TYPES NO TESTS				CLEAN SEED OF TRASH AND SMALL CONTAMINANTS.							IT WAS RECOMMENDED TO SUBMITTER TO USE A #6 ROUND-HOLE TOP SCREEN TO REMOVE LARGE TRASH AND A 1/20 ROUND-HOLE BOTTOM SCREEN TO DROP SMALL CONTAMINANTS.
526			PERFORMED.				REMOVE BROKEN CORNNUTS FROM WHOLE							FRICTION, SCREENS, AND PNEUMATIC SEPARATORS WERE INEFFECTIVE IN MAKING THIS SEPARATION ALTHOUGH THERE WERE DISTINCT PHYSICAL DIFFERENCES BETWEEN
604			CORNNUT				ONES.				\perp			THE BROKEN NUTS AND THE WHOLE ONES.
655			NO SAMPLE FOR THIS #											
788														
875			FESCUE				TEST AFFECT OF				\perp			
888			VARIOUS				MAGNETIC FLUID ON GERMINABILITY OF ALFALFA, ONION, RED CLOVER, LEEK AND BERMUDAGRASS.	MAGNETIC						NO DECREASE IN GERMINATION OR INCREASE IN ABNORMAL SEEDLINGS WAS SEED IN ANY OF THE TESTS.
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	anon amusa	GROP GREGIEG CROP COMMON	CONTAMINANT CONTAMINANT	CONTAMINANT COMMON			OPERATING PARAMETERS QUALI				
NO	CROP GENUS	CROP SPECIES NAME	GENUS SPECIES	NAME	PROBLEM	MACHINE USED	OPERATING PARAMETERS TY	IP	CR	FP NOTES	CONCLUSION
					COUNT SEEDS/LB IN						
					SAMPLES OF FESTUCA						FESTUCA OVINA: 870,000 SEEDS/LB. POA
934					OVINA AND POA AMPLA.	OTHER	COUNT-A PAC				AMPLA: 886,000 SEEDS/LB.
					MUST REMOVE ALL WILD						
					OAT, AND GET TOTAL						
					WEED TO LESS THAN						
					0.5% TOÖMEET						
					CERTIFIED GRADE.						
993				DOWNY BROME	SEED FROM MADRAS. 20000 POUND LOT.	SCREEN	HAND SHAKE				
1041		CALLA LILLY		WILD OAT	20000 FOOND DOT:	DCKEEN	HAND SHARE				
					THIS WAS A REQUEST						
					FOR INFORMATION						
					REGARDING SEED						
					TECHNOLOGY PROGRAMS						
					AT UNIVERSITIES IN THE US. BODGER SEED						
					CO WAS LOOKING FOR A						
					QUALIFIED SEED						
					TECHNOLOGIST FOR						
1231				RATTAIL FESCUE	EMPLOYMENT OPENING.						
										THIS MATERIAL WAS SENT TO AL	
										HOFFMAN CO. FOR SCREEN SIZE	
					DETERMINE SCREEN					DETERMINATION. SCREENS OVER	
1040				HENDIT	SIZES FOR UNKNOWN					AND UNDERSIZE WILL BE	
1240				HENBIT	FLOWER SEED SPECIES.			-		DETERMINED.	
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